

SONY®

DIGITAL AUDIO MIXER

DMX-B4008

DMX-B4016

MACHINE CONTROLLER
DMBK-4001

MIXER STAND
DMBK-4002

VU METER PANEL
DMBK-4003

BLANK FRAME
DMBK-4004

TABLE KIT
DMBK-4005

TABLE KIT
DMBK-4006

BACK-UP POWER SUPPLY UNIT
DMBK-4007

BACK-UP POWER SUPPLY UNIT
DMBK-4008

BACK-UP POWER SUPPLY UNIT
DMBK-4009

INPUT EXTENSION KIT
DMBK-4010

OUTPUT EXTENSION KIT
DMBK-4011

20-BIT MIC/LINE INPUT MODULE
DMBK-4012

MAINTENANCE MANUAL Part 2
1st Edition

DMX-B4008 Serial No. 10001 and Higher (UC)
 Serial No. 20001 and Higher (J)
 Serial No. 30001 and Higher (EK)

DMX-B4016 Serial No. 10001 and Higher (UC)
 Serial No. 20001 and Higher (J)
 Serial No. 30001 and Higher (EK)

DMBK-4001 Serial No. 10001 and Higher
DMBK-4002 Serial No. 10001 and Higher
DMBK-4003 Serial No. 10001 and Higher
DMBK-4004 Serial No. 10001 and Higher
DMBK-4005 Serial No. 10001 and Higher
DMBK-4006 Serial No. 10001 and Higher
DMBK-4007 Serial No. 10001 and Higher (UC)
 Serial No. 20001 and Higher (J)
 Serial No. 30001 and Higher (EK)
DMBK-4008 Serial No. 10001 and Higher (UC)
 Serial No. 20001 and Higher (J)
 Serial No. 30001 and Higher (EK)
DMBK-4009 Serial No. 10001 and Higher (UC)
 Serial No. 20001 and Higher (J)
 Serial No. 30001 and Higher (EK)
DMBK-4010 Serial No. 10001 and Higher
DMBK-4011 Serial No. 10001 and Higher
DMBK-4012 Serial No. 10001 and Higher

このマニュアルについて

本書の目的

本書は、下記対象機種およびその別売アクセサリーのメンテナンスマニュアル パート2です。

対象機種: DMX-B4008/B4016

別売アクセサリー: DMBK-4001/4002/4003/4004/4005/
4006/4007/4008/4009/4010/4011/4012

本書は、システム/サービスエンジニアの方々にご使用いただくことを想定し、これらの機種の部品レベルまでのサービスを前提とした情報 (調整要項、回路図、マウント図、詳細パーツリスト等) を記載しています。

構成

本書の構成を把握していただくために、全章の概略を以下に説明します。

第1章 サービスインフォメーション

電源の交換 (ヒューズの交換)、補修用部品注意事項、およびエラーコードについて説明しています。

第2章 電気調整

保守、修理の際に必要な電気調整について説明しています。

SECTION 3. BOARD LAYOUTS

マウント図を掲載しています。

SECTION 4. SCHEMATIC DIAGRAMS

回路図を掲載しています。

SECTION 5. SEMICONDUCTOR PIN ASSIGNMENTS

使用半導体の外形図を掲載しています。

SECTION 6. SPARE PARTS

補修用部品について分解図、メカ部品リスト、電気部品リスト、付属品リストを記載しています。

SECTION 7. CHANGED PARTS

MANUAL STRUCTURE

Purpose of This Manual

This manual is Maintenance Manual Part 2 for the following units and optional accessories.

Models: DMX-B4008/B4016

Optional Accessories:

DMBK-4001/4002/4003/4004/4005/4006/
4007/4008/4009/4010/4011/4012

This manual describes the maintenance information on primary services such as the adjustment and replacement of serviceable parts (adjustment items, board layouts, schematic diagrams, comprehensive parts lists) are contained in this manual to support system and serviced engineers.

Contents

The following is a summary of all the sections for understanding the contents of this manual.

SECTION 1. SERVICE OVERVIEW

Describes the power supply replacement (fuse replacement), notes on repairing parts and errorcode.

SECTION 2. ELECTRICAL ADJUSTMENTS

Describes the electrical adjustments necessary when conducting repairs and maintenance.

SECTION 3. BOARD LAYOUTS

Contains the mount diagrams.

SECTION 4. SCHEMATIC DIAGRAMS

Contains the schematic diagrams.

SECTION 5. SEMICONDUCTOR PIN ASSIGNMENTS

Contains the pin assignment diagrams of the semiconductors used.

SECTION 6. SPARE PARTS

Contains the exploded view, mechanical parts list, electrical parts list and accessory list of the spare parts.

SECTION 7. CHANGED PARTS

メンテナンスマニュアル パート1

第1章 設置

本機を使用するにあたっての使用環境・設置スペースなどをはじめ、機器との接続に必要なコネクタの情報などについて説明しています。

第2章 別売アクセサリの取り付け

ここでは、別売アクセサリ (DMBK-4001~4012) の取り付け方法および使用方法について記載しています。

第3章 サービスインフォメーション

主要部品配置図、外装の開閉/取り外し、主要部品の交換、プラグイン基板の取り付け/取り外し、延長基板の使用方法等について説明します。

SECTION 4. BLOCK DIAGRAMS AND DESCRIPTIONS

メイン基板のブロック図およびフレーム図を記載しています。

SECTION 5. SPARE PARTS

補修用部品について分解図、メカ部品リスト、付属品リストを記載しています。

Maintenance Manual Part 1

SECTION 1. INSTALLATION

Describes the operating environment, installation space and information about the connectors required to connect with the other units.

SECTION 2. INSTALLATION OF OPTIONAL ACCESSORIES

Describes the installation procedures and usage of the optional accessories (DMBK-4001 to 4012).

SECTION 3. SERVICE OVERVIEW

Describes the main parts layout diagram, removing/attaching the cabinet, replacing the main parts, attaching/removing the plug-in board, usage of the extension board, etc.

SECTION 4. BLOCK DIAGRAMS AND DESCRIPTIONS

Contains the block diagrams of main board and the frame wirings.

SECTION 5. SPARE PARTS

Contains the exploded view, mechanical parts list and accessory list of the spare parts.

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(追加版にて近日発行)

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* : METER UNIT

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BOARD NAME	FUNCTION	PAGE
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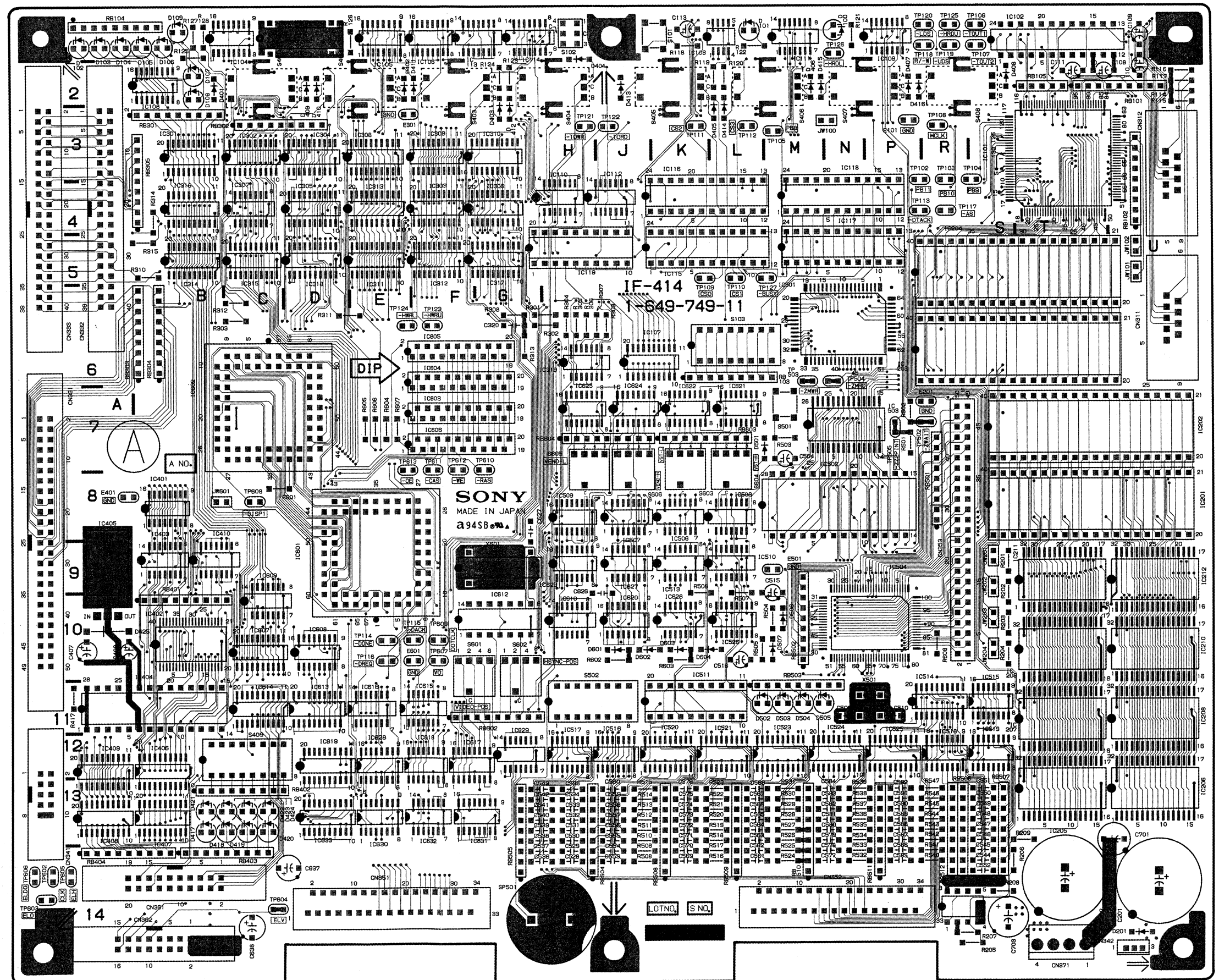
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IF-414/414A

IF-414 /414A BOARD
1-649-749-11

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Q3814	D103	Q504	X-9
Q3815	D104	Q505	X-9
Q3816	D105	Q506	X-9
Q3817	D106	Q507	H-8
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Q3822	D111	Q512	H-8
Q3823	D112	Q513	H-8
Q3824	D113	Q514	H-8
Q3825	D114	Q515	H-8
Q3826	D115	Q516	H-8
Q3827	D116	Q517	H-8
Q3828	D117	Q518	H-8
Q3829	D118	Q519	H-8
Q3830	D119	Q520	H-8
Q3831	D120	Q521	H-8
Q3832	D121	Q522	H-8
Q3833	D122	Q523	H-8
Q3834	D123	Q524	H-8
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Q3838	D127	Q528	H-8
Q3839	D128	Q529	H-8
Q3840	D129	Q530	H-8
Q3841	D130	Q531	H-8
Q3842	D131	Q532	H-8
Q3843	D132	Q533	H-8
Q3844	D133	Q534	H-8
Q3845	D134	Q535	H-8
Q3846	D135	Q536	H-8
Q3847	D136	Q537	H-8
Q3848	D137	Q538	H-8
Q3849	D138	Q539	H-8
Q3850	D139	Q540	H-8
Q3851	D140	Q541	H-8
Q3852	D141	Q542	H-8
Q3853	D142	Q543	H-8
Q3854	D143	Q544	H-8
Q3855	D144	Q545	H-8
Q3856	D145	Q546	H-8
Q3857	D146	Q547	H-8
Q3858	D147	Q548	H-8
Q3859	D148	Q549	H-8
Q3860	D149	Q550	H-8
Q3861	D150	Q551	H-8
Q3862	D151	Q552	H-8
Q3863	D152	Q553	H-8
Q3864	D153	Q554	H-8
Q3865	D154	Q555	H-8
Q3866	D155	Q556	H-8
Q3867	D156	Q557	H-8
Q3868	D157	Q558	H-8
Q3869	D158	Q559	H-8
Q3870	D159	Q560	H-8
Q3871	D160	Q561	H-8
Q3872	D161	Q562	H-8
Q3873	D162	Q563	H-8
Q3874	D163	Q564	H-8
Q3875	D164	Q565	H-8
Q3876	D165	Q566	H-8
Q3877	D166	Q567	H-8
Q3878	D167	Q568	H-8
Q3879	D168	Q569	H-8
Q3880	D169	Q570	H-8
Q3881	D170	Q571	H-8
Q3882	D171	Q572	H-8
Q3883	D172	Q573	H-8
Q3884	D173	Q574	H-8
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Q3890	D179	Q580	H-8
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Q3892	D181	Q582	H-8
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Q3894	D183	Q584	H-8
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Q3897	D186	Q587	H-8
Q3898	D187	Q588	H-8
Q3899	D188	Q589	H-8
Q3900	D189	Q590	H-8
Q3901	D190	Q591	H-8
Q3902	D191	Q592	H-8
Q3903	D192	Q593	H-8
Q3904	D193	Q594	H-8
Q3905	D194	Q595	H-8
Q3906	D195	Q596	H-8
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Q3908	D197	Q598	H-8
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Q3911	D200	Q601	H-8
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Q3913			

* : B (Soldering) Side mount



B (Soldering) Side

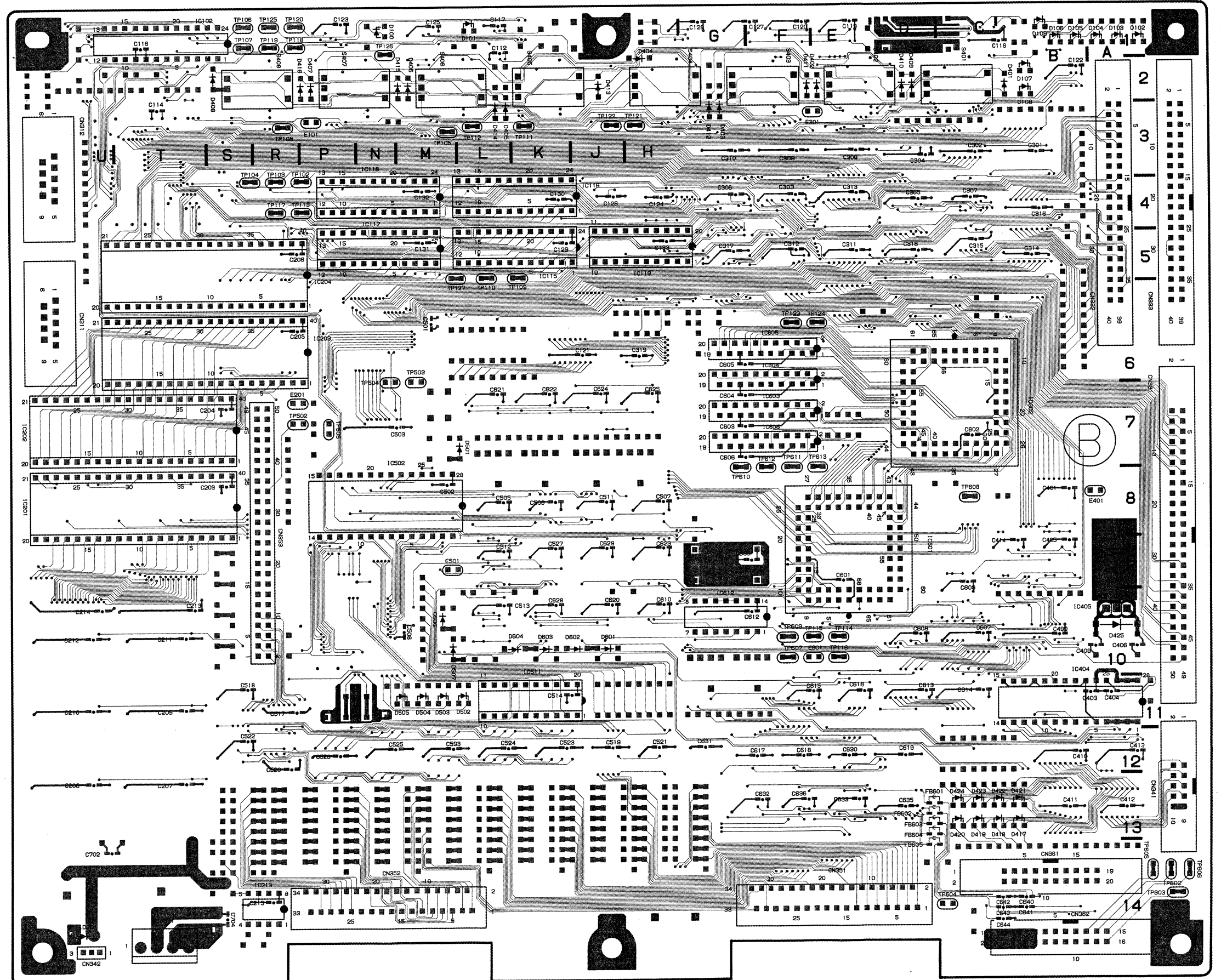
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1-649-749-1 1

OC3311	U-6	C501	M-6
OC3312	U-6	C502	M-6
OC3322	A-6	C503	P-9
OC3333	A-6	C504	P-9
OC3422	T-14	C505	K-9
OC3511	T-14	C506	H-8
OC3522	T-14	C507	H-8
OC3533	U-9	C508	K-10
OC3611	U-9	C509	P-K-9
OC3622	U-9	C510	H-8
OC3633	U-9	C511	H-8
D100	N-1	C512	J-11
D101	N-1	C513	J-11
D102	A-2	C514	J-11
D103	A-2	C515	J-11
D104	A-2	C516	J-11
D105	A-2	C517	J-11
D106	A-2	C518	J-11
D107	A-2	C519	J-11
D108	A-2	C520	J-11
D109	A-2	C521	J-11
D201	A-2	C522	J-11
D202	A-2	C523	J-11
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D204	A-2	C525	J-11
D205	A-2	C526	J-11
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D207	A-2	C528	J-11
D208	A-2	C529	J-11
D209	A-2	C530	J-11
D210	A-2	C531	J-11
D211	A-2	C532	J-11
D212	A-2	C533	J-11
D213	A-2	C534	J-11
D214	A-2	C535	J-11
D215	A-2	C536	J-11
D216	A-2	C537	J-11
D217	A-2	C538	J-11
D218	A-2	C539	J-11
D219	A-2	C540	J-11
D220	A-2	C541	J-11
D221	A-2	C542	J-11
D222	A-2	C543	J-11
D223	A-2	C544	J-11
D224	A-2	C545	J-11
D225	A-2	C546	J-11
D226	A-2	C547	J-11
D227	A-2	C548	J-11
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D253	A-2	C574	J-11
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D291	A-2	C612	J-11
D292	A-2	C613	J-11

* : B (Soldering) Side mount

IF-414/414A
DMX-B4008/B4016 CONSOLE

IF-414/414A
DMX-B4008/B4016 CONSOLE



1-649-749-11

A (Component) Side

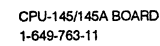
A (Component) Side

CPU-145/145A
DMX-B4008/B4016 CONSOLE

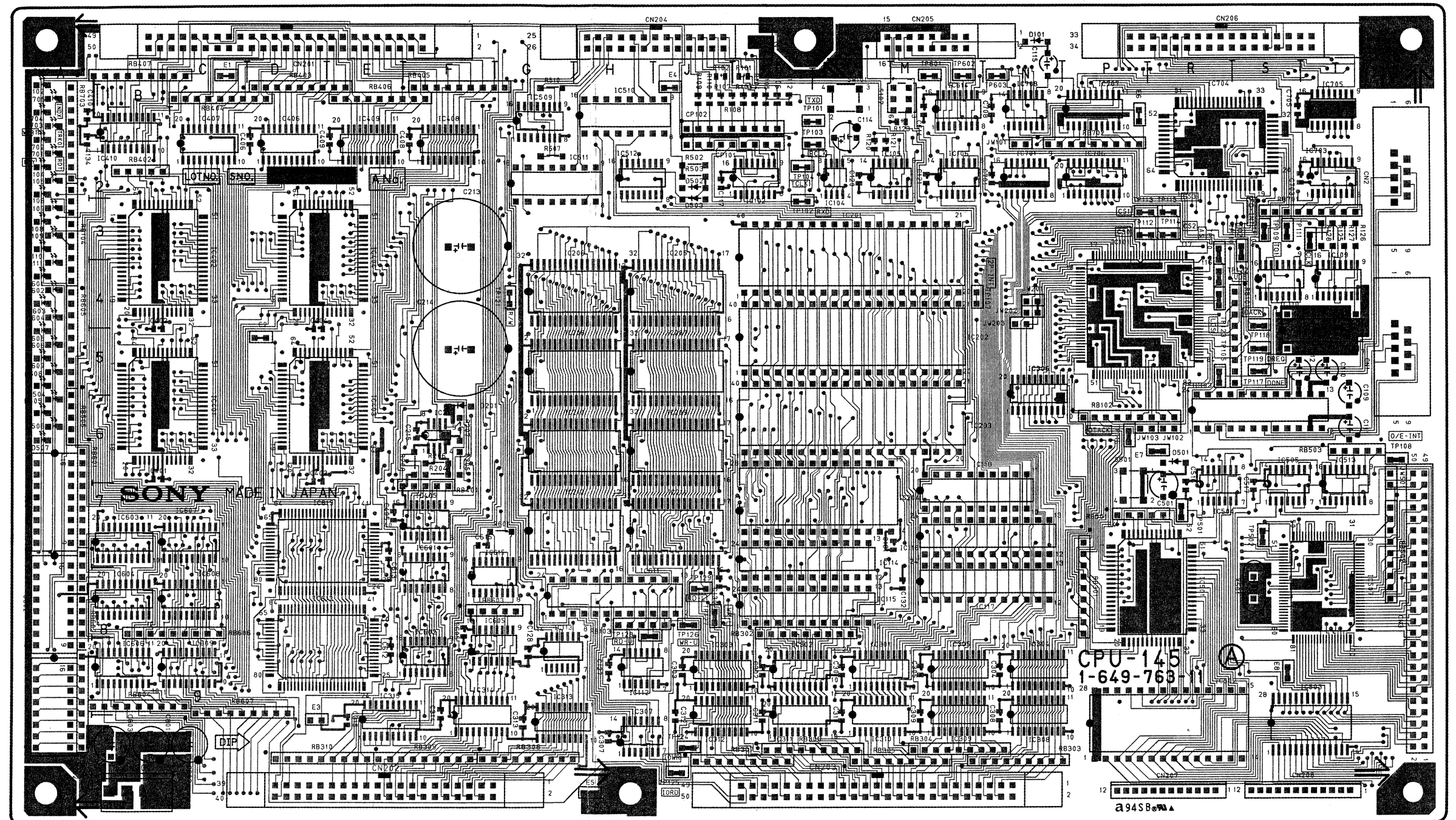
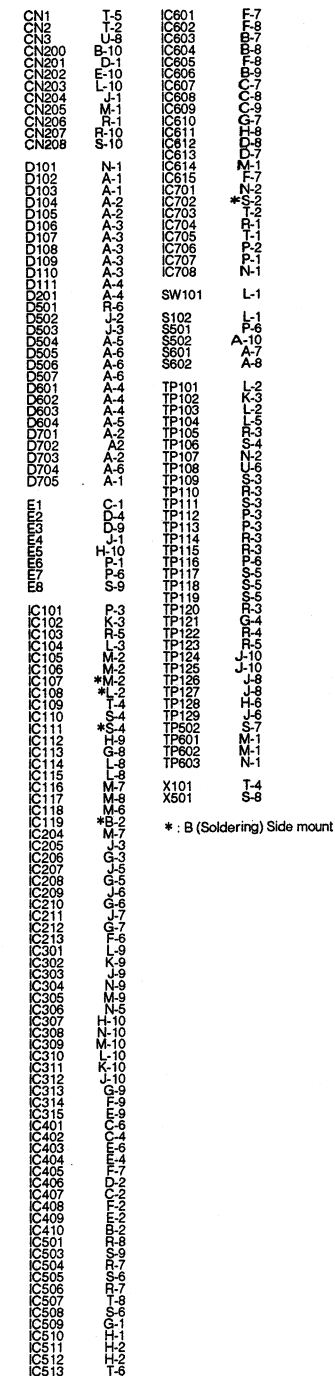
DMX-B4008/B4016 CONSOLE

CPU-145/145A
DMX-B4008/B4016 CONSOLE

DMX-B4008/B4016 CONSOLE



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CPU-145
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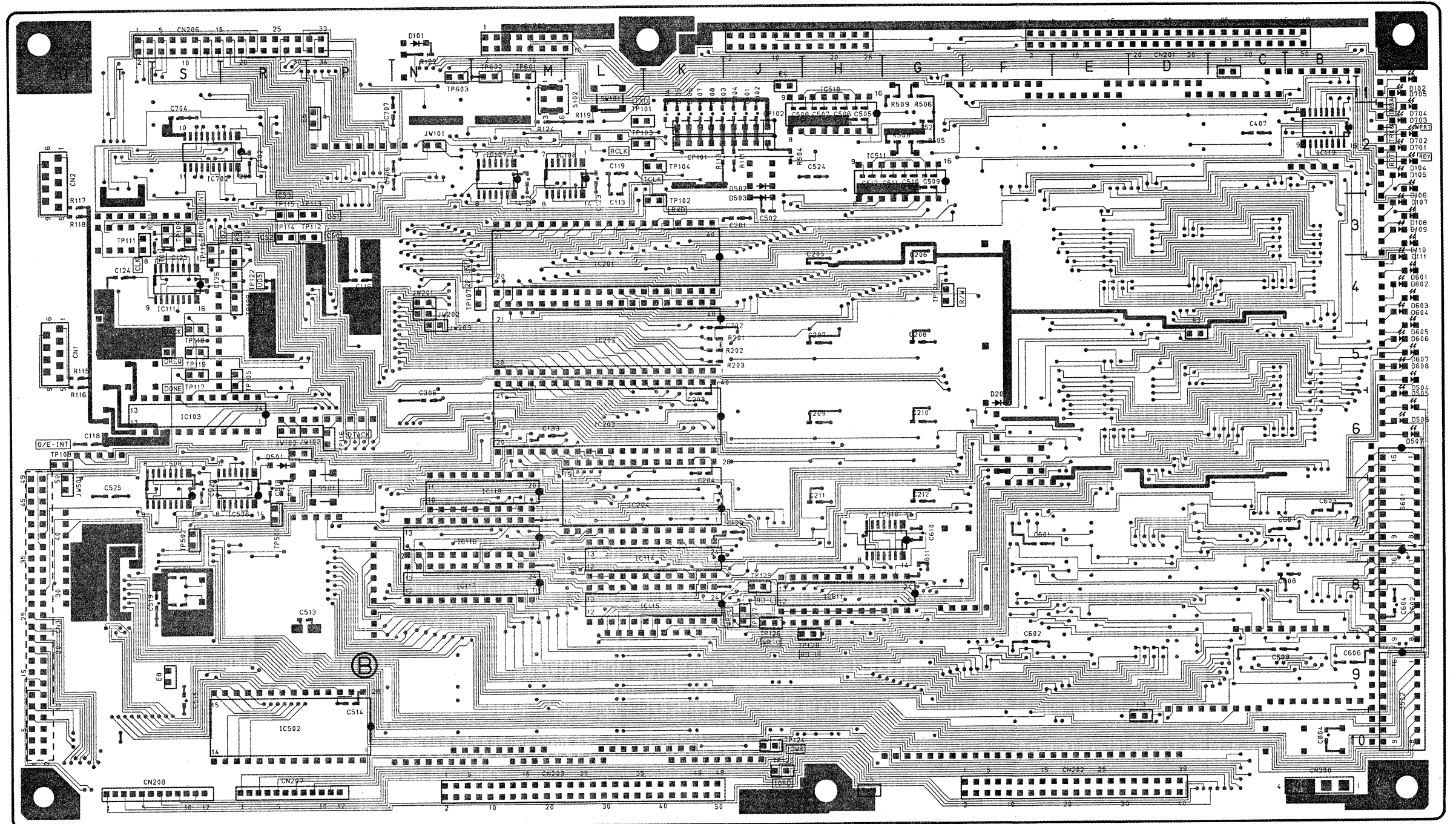
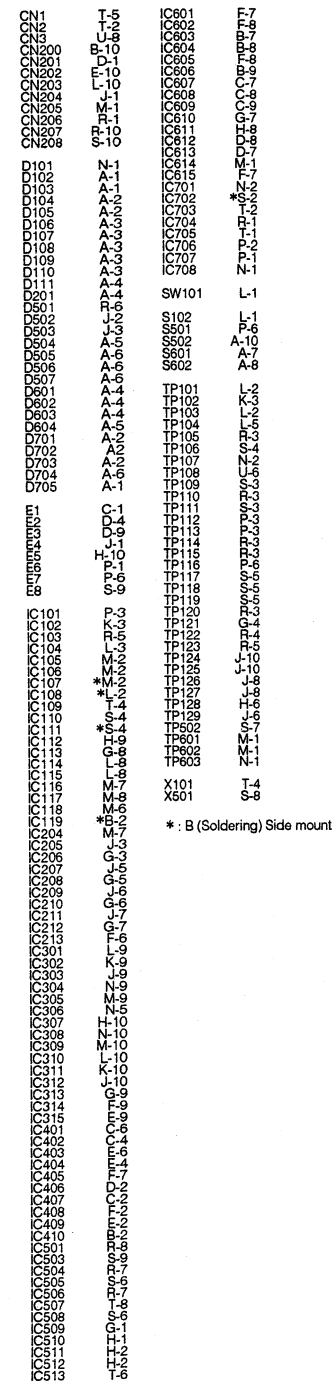
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B (Soldering) Side

CPU-145/145A
DMX-B4008/B4016 CONSOLE



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IF-413

A (Component) Side

IF-413 BOARD
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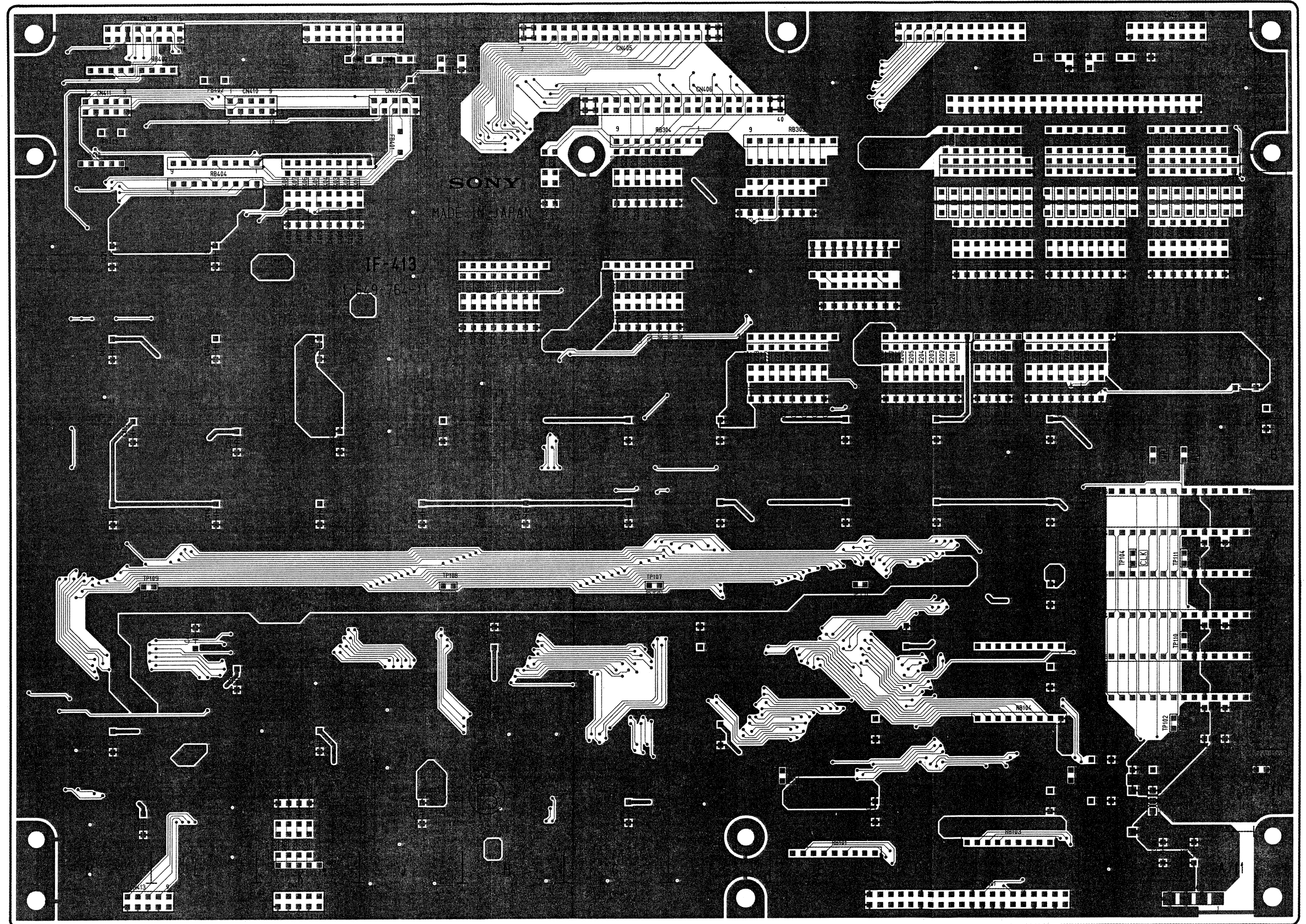
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IF-413

B (Soldering) Side

IF-413 BOARD
1-649-764-11

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CN401	C-11
CN402	B-11
CN403	C-11
CN404	C-11
CN405	C-11
CN406	K-11
CN407	K-11
CN408	M-11
CN409	L-11
CN410	L-11
CN411	L-11
CN412	L-11
CN413	L-11
CP201	A-2
CP202	B-2
CP203	B-2
CP204	B-2
CP205	B-2
CP206	C-3
D401	C-1
D402	C-1
D403	C-1
D404	L-1
D501	B-10
IC101	E-10
IC102	E-10
IC103	C-9
IC104	C-9
IC105	C-9
IC106	C-9
IC201	D-5
IC202	D-5
IC203	D-5
IC204	D-5
IC205	D-5
IC206	E-5
IC207	E-5
IC208	E-5
IC209	A-8
IC210	A-8
IC301	A-7
IC302	G-6
IC303	G-6
IC304	G-6
IC305	F-5
IC306	G-10
IC307	G-10
IC308	G-10
IC309	H-6
IC310	H-6
IC311	K-8
IC312	K-8
IC313	K-8
IC314	K-7
IC315	K-7
IC316	J-1
IC317	L-10
IC318	L-10
IC401	M-8
IC402	M-8
IC403	L-6
IC404	L-6
IC405	M-7
IC406	M-7
IC407	M-7
IC408	A-5
IC409	A-5
IC410	M-5
IC411	M-5
IC501	B-10
TPE1	A-10
TP101	B-6
TP102	B-9
TP103	E-10
TP104	E-10
TP105	C-10
TP106	E-7
TP107	E-7
TP108	J-8
TP109	M-7
TP110	A-7
TP111	A-7
TP112	A-6



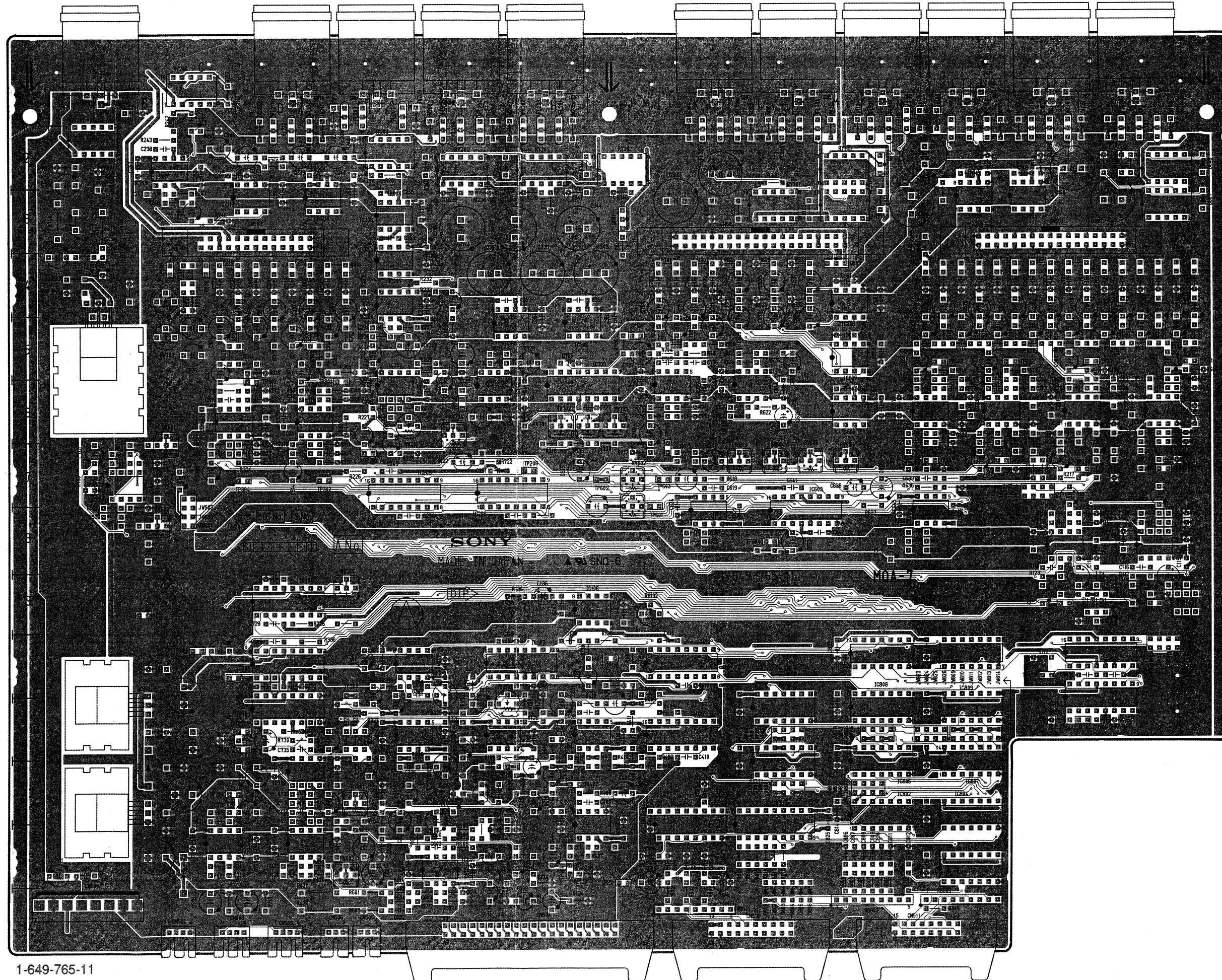
1-649-764-11

MOA-7A/7B

A (Component) Side

MOA-7A/7B BOARD
1-649-765-11

Q601	TP101	TP101	TP101
Q602	TP102	TP102	TP102
Q603	TP103	TP103	TP103
Q604	TP104	TP104	TP104
Q605	TP105	TP105	TP105
Q606	TP106	TP106	TP106
Q607	TP107	TP107	TP107
Q608	TP108	TP108	TP108
Q609	TP109	TP109	TP109
Q610	TP110	TP110	TP110
Q611	TP111	TP111	TP111
Q612	TP112	TP112	TP112
Q613	TP113	TP113	TP113
Q614	TP114	TP114	TP114
Q615	TP115	TP115	TP115
Q616	TP116	TP116	TP116
Q617	TP117	TP117	TP117
Q618	TP118	TP118	TP118
Q619	TP119	TP119	TP119
Q620	TP120	TP120	TP120
Q621	TP121	TP121	TP121
Q622	TP122	TP122	TP122
Q623	TP123	TP123	TP123
Q624	TP124	TP124	TP124
Q625	TP125	TP125	TP125
Q626	TP126	TP126	TP126
Q627	TP127	TP127	TP127
Q628	TP128	TP128	TP128
Q629	TP129	TP129	TP129
Q630	TP130	TP130	TP130
Q631	TP131	TP131	TP131
Q632	TP132	TP132	TP132
Q633	TP133	TP133	TP133
Q634	TP134	TP134	TP134
Q635	TP135	TP135	TP135
Q636	TP136	TP136	TP136
Q637	TP137	TP137	TP137
Q638	TP138	TP138	TP138
Q639	TP139	TP139	TP139
Q640	TP140	TP140	TP140
Q641	TP141	TP141	TP141
Q642	TP142	TP142	TP142
Q643	TP143	TP143	TP143
Q644	TP144	TP144	TP144
Q645	TP145	TP145	TP145
Q646	TP146	TP146	TP146
Q647	TP147	TP147	TP147
Q648	TP148	TP148	TP148
Q649	TP149	TP149	TP149
Q650	TP150	TP150	TP150
Q651	TP151	TP151	TP151
Q652	TP152	TP152	TP152
Q653	TP153	TP153	TP153
Q654	TP154	TP154	TP154
Q655	TP155	TP155	TP155
Q656	TP156	TP156	TP156
Q657	TP157	TP157	TP157
Q658	TP158	TP158	TP158
Q659	TP159	TP159	TP159
Q660	TP160	TP160	TP160
Q661	TP161	TP161	TP161
Q662	TP162	TP162	TP162
Q663	TP163	TP163	TP163
Q664	TP164	TP164	TP164
Q665	TP165	TP165	TP165
Q666	TP166	TP166	TP166
Q667	TP167	TP167	TP167
Q668	TP168	TP168	TP168
Q669	TP169	TP169	TP169
Q670	TP170	TP170	TP170
Q671	TP171	TP171	TP171
Q672	TP172	TP172	TP172
Q673	TP173	TP173	TP173
Q674	TP174	TP174	TP174
Q675	TP175	TP175	TP175
Q676	TP176	TP176	TP176
Q677	TP177	TP177	TP177
Q678	TP178	TP178	TP178
Q679	TP179	TP179	TP179
Q680	TP180	TP180	TP180
Q681	TP181	TP181	TP181
Q682	TP182	TP182	TP182
Q683	TP183	TP183	TP183
Q684	TP184	TP184	TP184
Q685	TP185	TP185	TP185
Q686	TP186	TP186	TP186
Q687	TP187	TP187	TP187
Q688	TP188	TP188	TP188
Q689	TP189	TP189	TP189
Q690	TP190	TP190	TP190
Q691	TP191	TP191	TP191
Q692	TP192	TP192	TP192
Q693	TP193	TP193	TP193
Q694	TP194	TP194	TP194
Q695	TP195	TP195	TP195
Q696	TP196	TP196	TP196
Q697	TP197	TP197	TP197
Q698	TP198	TP198	TP198
Q699	TP199	TP199	TP199
Q700	TP200	TP200	TP200



B (Soldering) Side

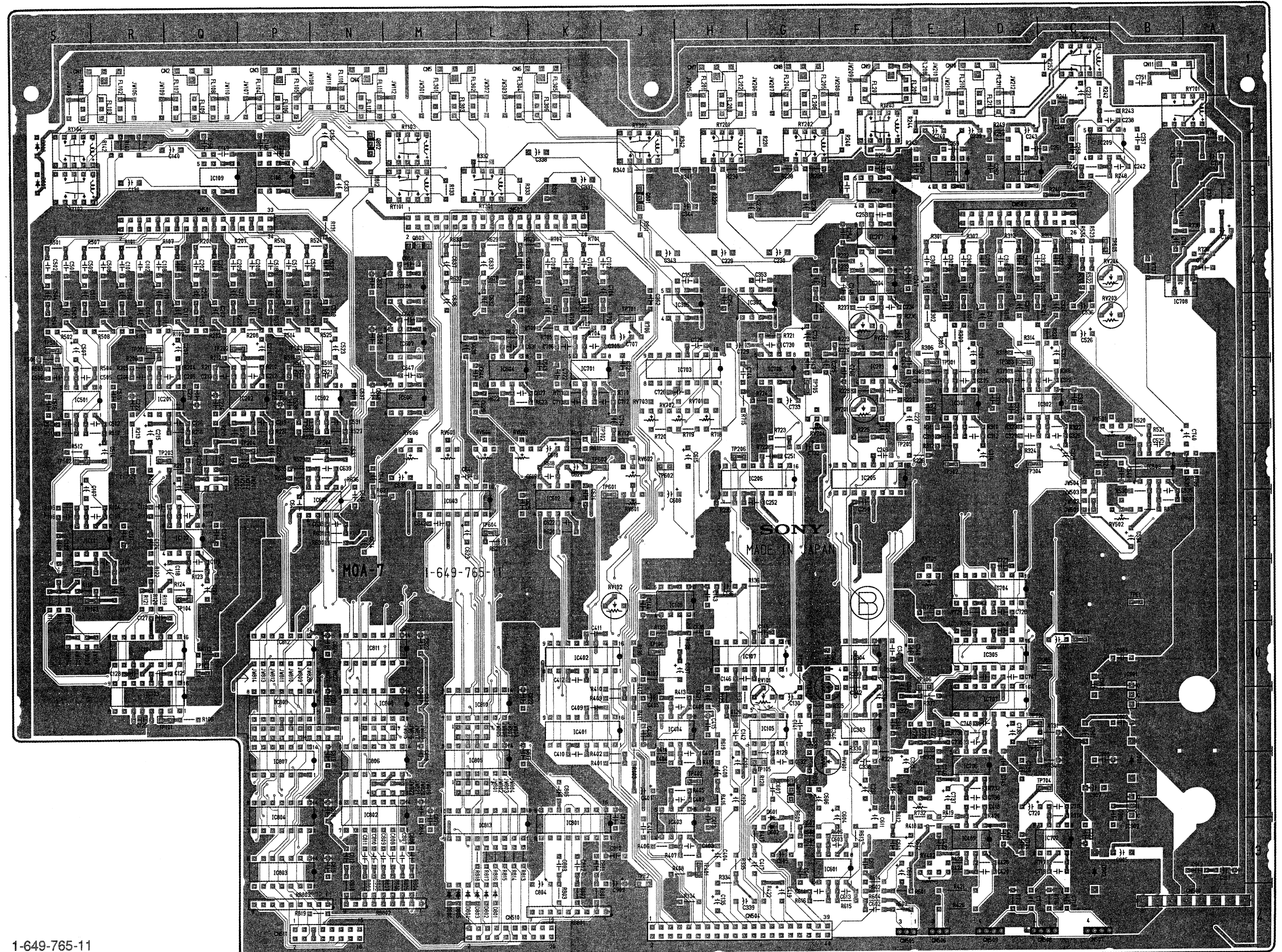
MOA-7A/7B BOARD
1-649-765-11

[illegible]

1-649-765-11

MOA-7A/7B
DMX-B4008/B4016 CONSOLE

MOA-7A/7B
DMX-B4008/B4016 CONSOLE

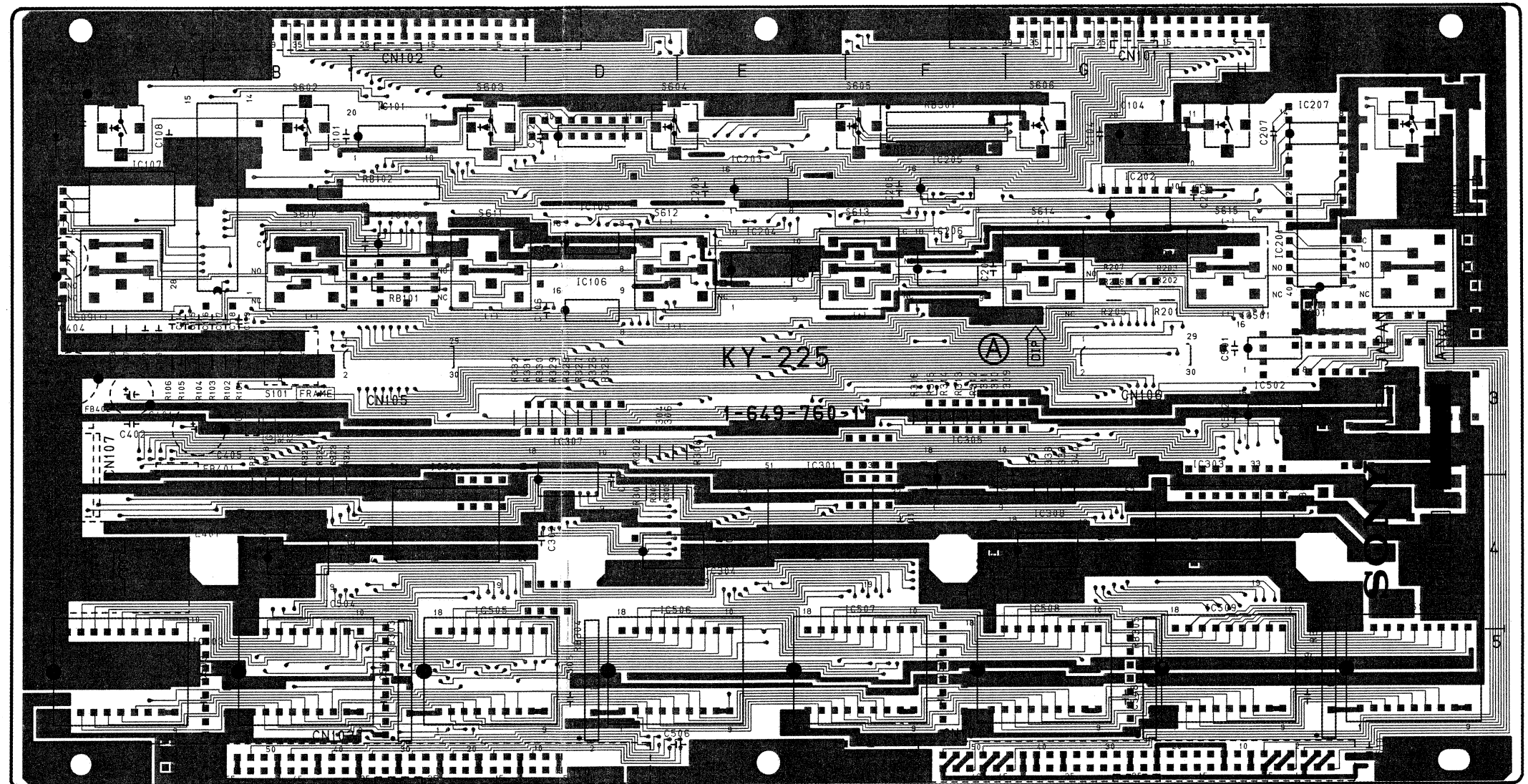


KY-225 DMBK-4010 (OPTION)
DMX-B4008/B4016 CONSOLE

A (Component) Side

CN101	*G-1
CN102	*G-1
CN103	*G-1
CN104	OC
CN105	OC
CN106	A-2
CN107	A-2
D101	A-1
E101	*B-3
FB401	*A-3
FB402	*A-3
IC101	C-1
IC102	C-1
IC103	OC-2
IC104	OC-2
IC105	OC-2
IC106	A-1
IC107	A-1
IC108	A-2
IC201	A-1
IC202	A-1
IC203	A-1
IC204	A-2
IC205	A-2
IC206	A-2
IC207	A-2
IC301	A-1
IC302	A-1
IC303	A-1
IC304	A-1
IC305	A-1
IC306	A-1
IC307	A-1
IC308	A-1
IC309	A-1
IC501	A-1
IC502	A-1
IC503	A-1
IC504	A-1
IC505	A-1
IC506	A-1
IC507	A-1
IC508	A-1
IC509	A-1
IC510	A-1
IC511	A-1
IC512	A-1
IC513	A-1
IC514	A-1
IC515	A-1
IC516	A-1
S101	*B-3
SE01	C-1
SE02	C-1
SE03	C-1
SE04	C-1
SE05	C-1
SE06	C-1
SE07	C-1
SE08	C-1
SE09	C-1
SE10	A-2
SE11	A-2
SE12	A-2
SE13	A-2
SE14	A-2
SE15	A-2
SE16	A-2

* : B (Soldering) Side mount



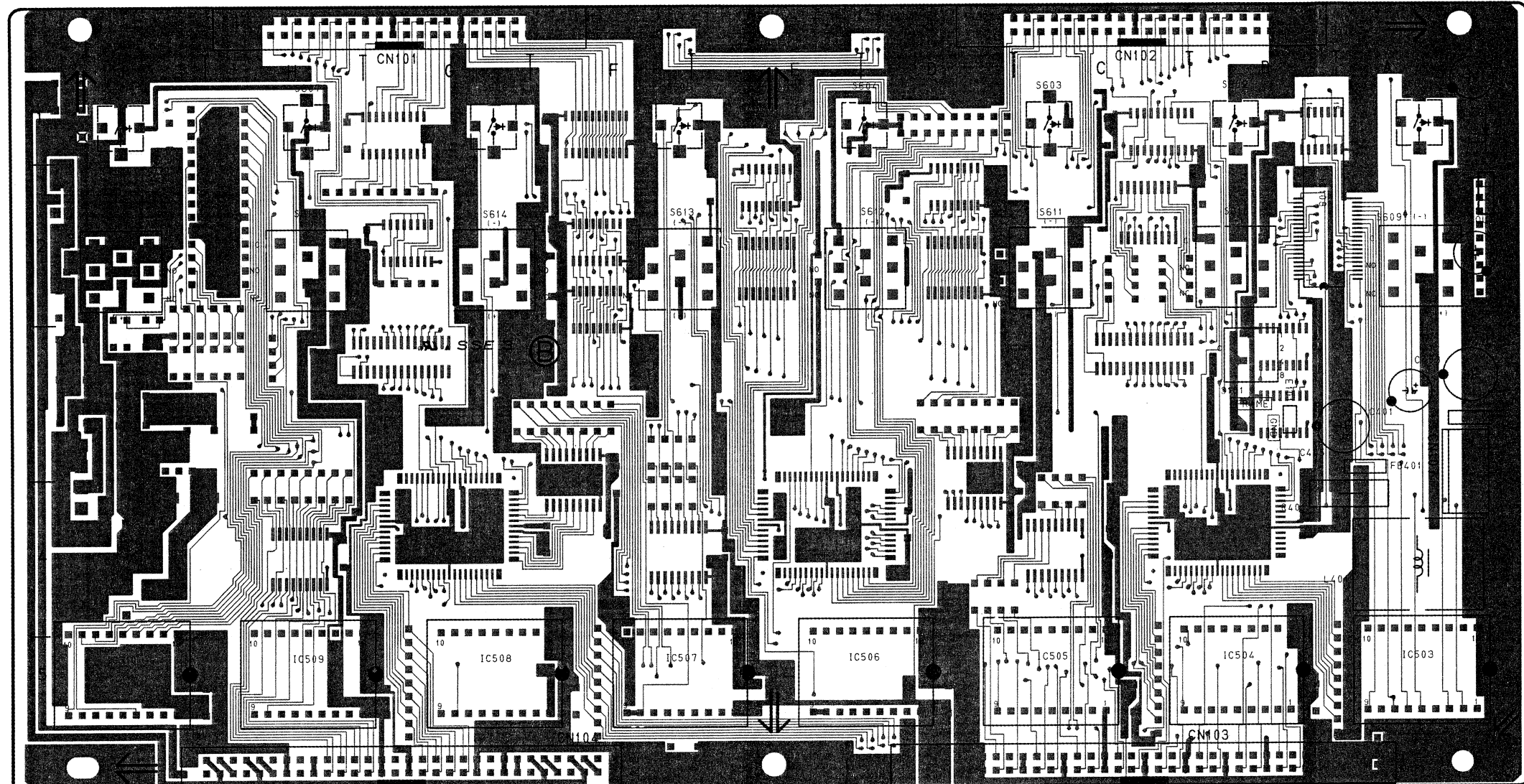
3-10

DMBK-4010 (OPTION) **KY-225**
DMX-B4008/B4016 CONSOLE

KY-225 DMBK-4010 (OPTION)
DMX-B4008/B4016 CONSOLE

KY-225

B (Soldering) Side



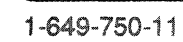
1-649-760-11

KY-225 BOARD
1-649-760-11

CN101	*G-1
CN102	*C-1
CN103	*B-5
CN104	*F-5
CN105	*C-3
CN106	*G-3
CN107	*A-3
D101	A-1
E101	*B-3
FB401	*A-3
FB402	*A-3
IC101	C-1
IC102	C-2
IC103	C-3
IC104	G-1
IC105	C-3
IC106	C-3
IC107	A-1
IC108	A-1
IC201	G-3
IC202	G-3
IC203	G-3
IC204	G-3
IC205	G-3
IC206	G-3
IC207	G-3
IC208	G-3
IC209	G-3
IC210	G-3
IC301	G-3
IC302	G-3
IC303	G-3
IC304	G-3
IC305	G-3
IC306	G-3
IC307	G-3
IC308	G-3
IC309	G-3
IC310	G-3
IC401	G-3
IC402	G-3
IC403	G-3
IC404	G-3
IC405	G-3
IC406	G-3
IC407	G-3
IC408	G-3
IC409	G-3
IC410	G-3
IC501	G-3
IC502	G-3
IC503	G-3
IC504	G-3
IC505	G-3
IC506	G-3
IC507	G-3
IC508	G-3
IC509	G-3
IC510	G-3
S101	*B-3
S601	*B-3
S602	*B-3
S603	*B-3
S604	*B-3
S605	*B-3
S606	*B-3
S607	*B-3
S608	*B-3
S609	*B-3
S610	*B-3
S611	*B-3
S612	*B-3
S613	*B-3
S614	*B-3
S615	*B-3
S616	*B-3

* : B (Soldering) Side mount

B (Soldering) Side



IF-421
DMX-B4008/B4016 METER UNIT

CN101	*A-5
CN111	D-1
CN121	J-7
D201	
D202	
D203	
D204	
D205	
D206	
D207	
D208	
D209	
D210	
D211	
D212	
D213	
D503	
D504	
D505	
E101	E-5
FB201	J-7
IC101	G-1
IC102	
IC103	
IC104	
IC105	
IC106	
IC107	
IC108	
IC109	
IC110	
IC111	
IC112	
IC113	
C201	
C202	
C203	
C204	
C205	
C206	
C207	
O101	
O102	
O103	
O104	
O105	
O106	
O107	
O108	
O109	
O110	
S101	C-8
S102	C-8
TP102	
TP103	
TP104	
TP105	
TP202	
TP203	
TP204	
X101	D-5

* : B (Soldering) Side mount

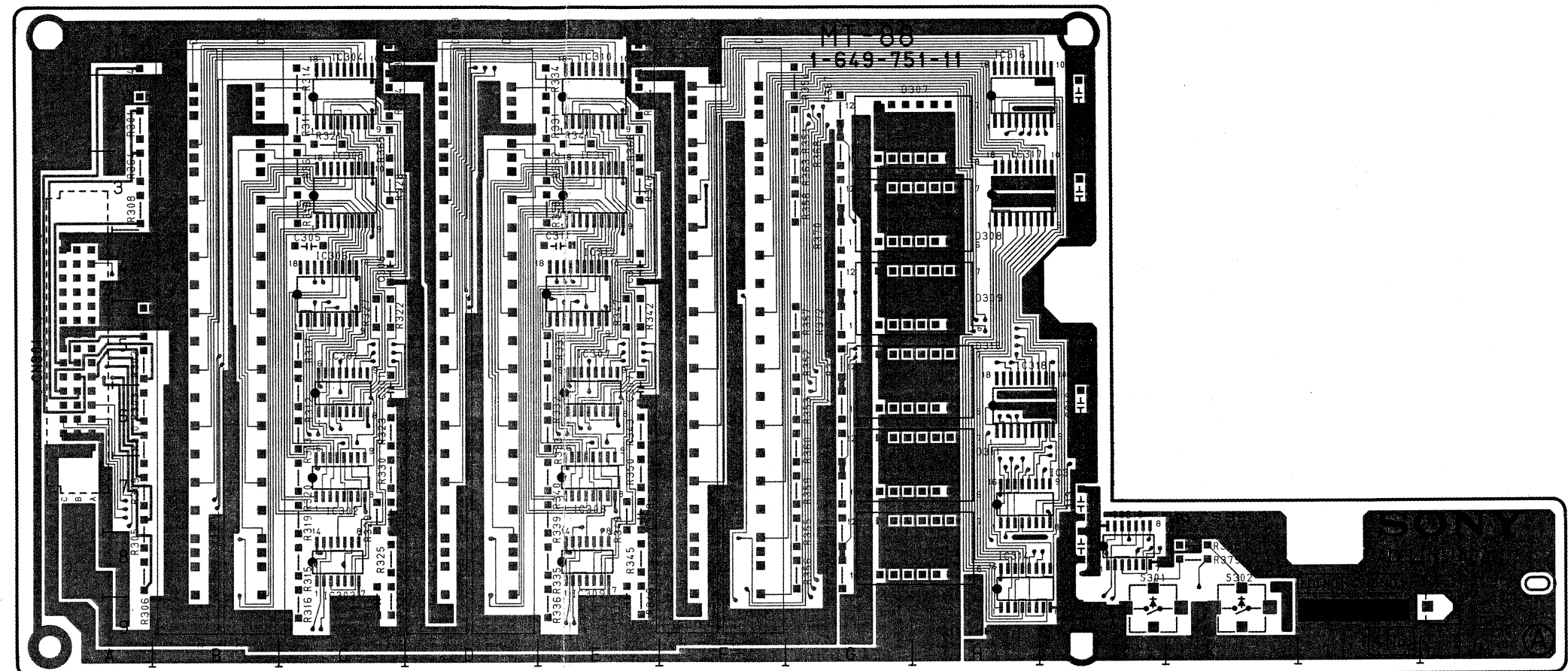
MT-88

A (Component) Side

MT-88 BOARD
1-649-751-11

CN301	*A-5
D301	B-1
D302	B-1
D303	B-1
D304	B-1
D305	B-1
D306	B-1
D307	B-1
D308	B-1
D309	B-1
D310	B-1
D311	B-1
D312	B-1
IC301	B-1
IC302	B-1
IC303	B-1
IC304	B-1
IC305	B-1
IC306	B-1
IC307	B-1
IC308	B-1
IC309	B-1
IC310	B-1
IC311	B-1
IC312	B-1
IC313	B-1
IC314	B-1
IC315	B-1
IC316	B-1
IC317	B-1
IC318	B-1
S301	B-1
S302	B-1
S303	B-1

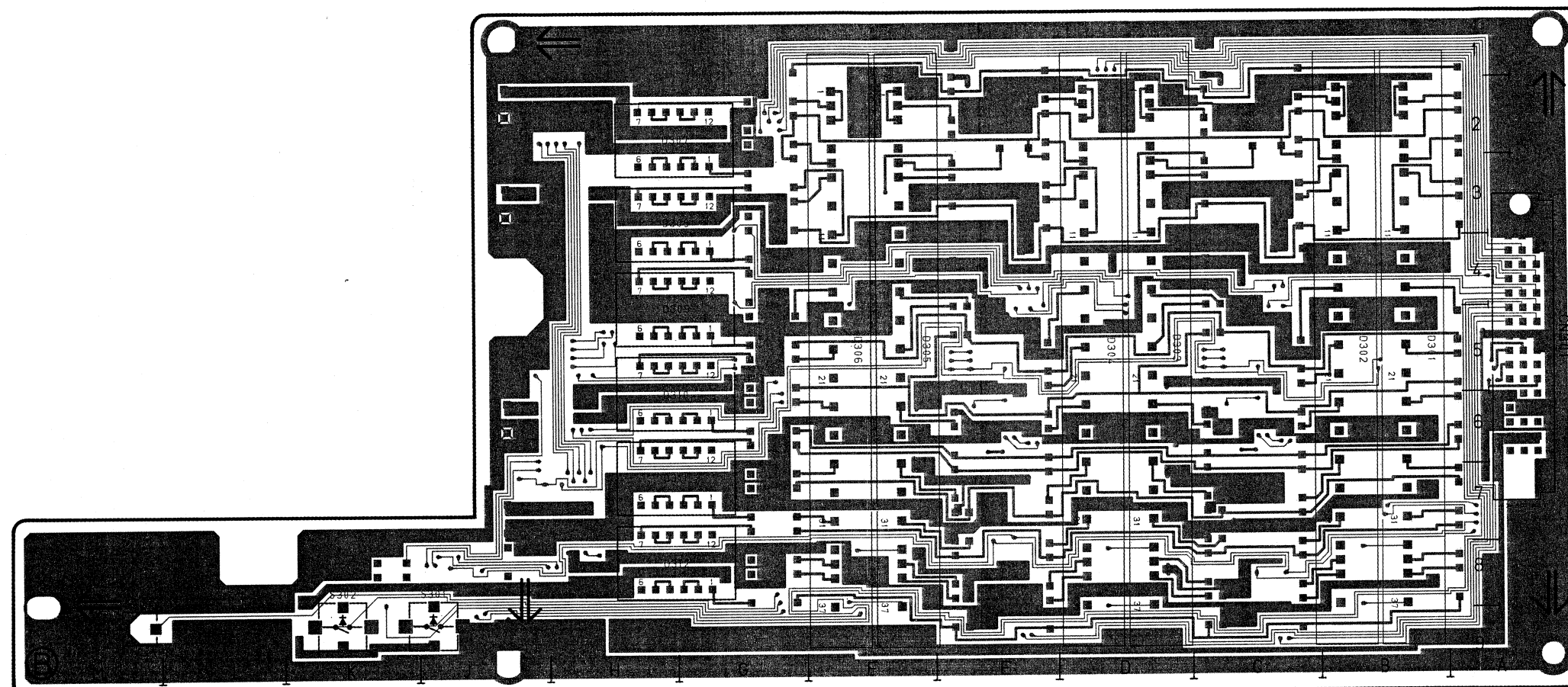
*: B (Soldering) Side mount



1-649-751-11

MT-88

B (Soldering) Side



1-649-751-11

MT-88 BOARD
1-649-751-11

CN301	*A-5
D301	D301
D302	D302
D303	D303
D304	D304
D305	D305
D306	D306
D307	D307
D308	D308
D309	D309
D310	D310
D311	D311
D312	D312
IC301	IC301
IC302	IC302
IC303	IC303
IC304	IC304
IC305	IC305
IC306	IC306
IC307	IC307
IC308	IC308
IC309	IC309
IC310	IC310
IC311	IC311
IC312	IC312
IC313	IC313
IC314	IC314
IC315	IC315
IC316	IC316
IC317	IC317
IC318	IC318

S301	J-8
S302	K-8
S303	M-8

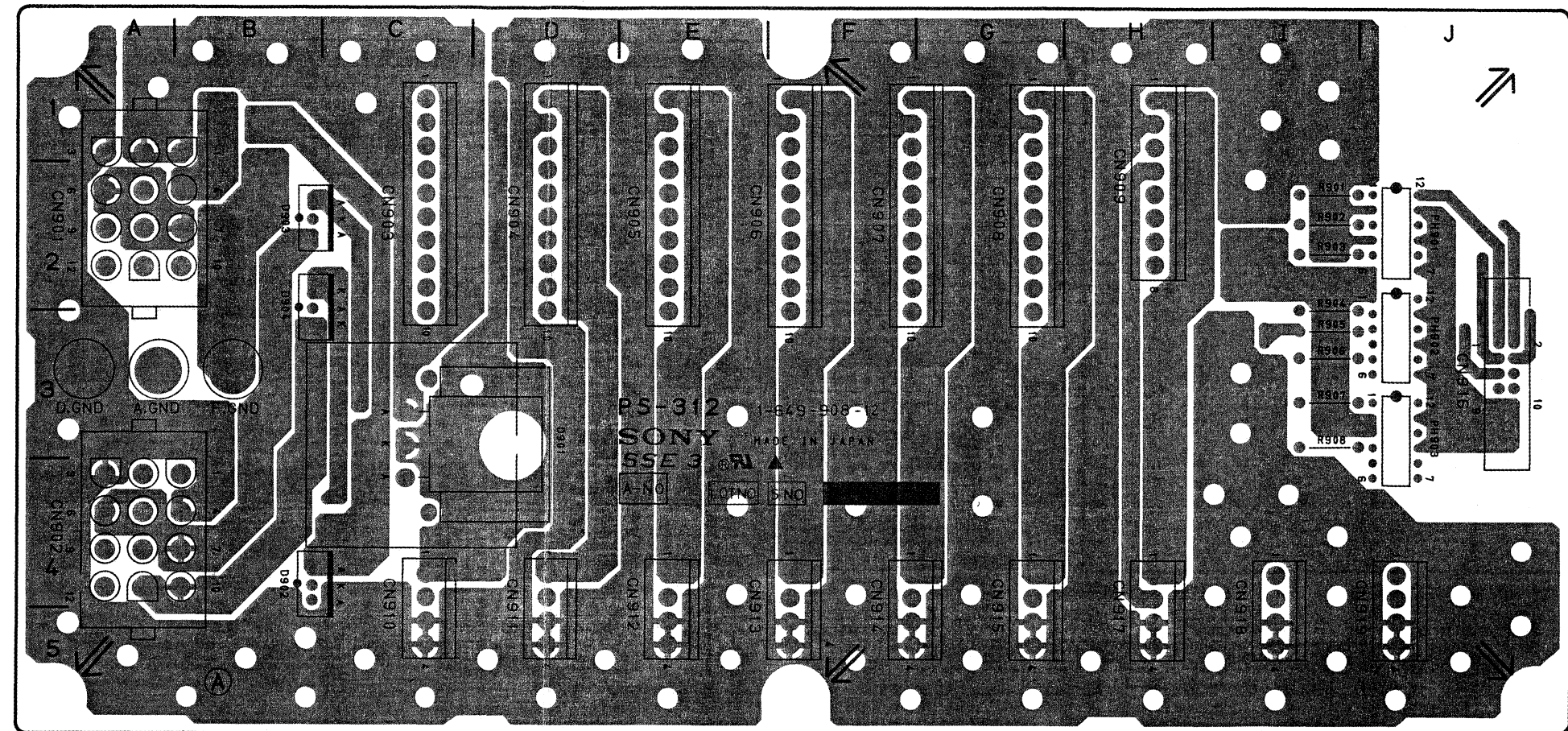
*: B (Soldering) Side mount

PS-312

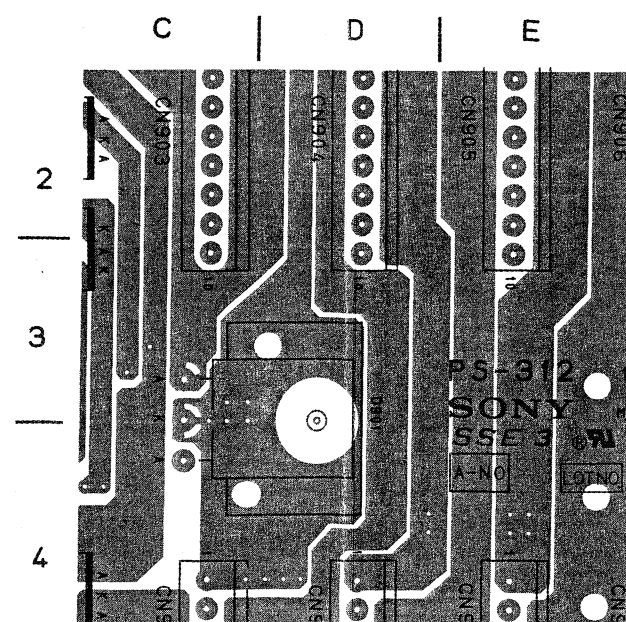
A (Component) Side

PS-312 BOARD
1-649-908-11, 12

CN901	A
CN902	A2
CN903	A3
CN904	A4
CN905	A5
CN906	A6
CN907	A7
CN908	A8
CN909	A9
CN910	A10
CN911	A11
CN912	A12
CN913	A13
CN914	A14
CN915	A15
CN916	A16
CN917	A17
CN918	A18
CN919	A19



1-649-908-11, 12



1-649-908-11 only

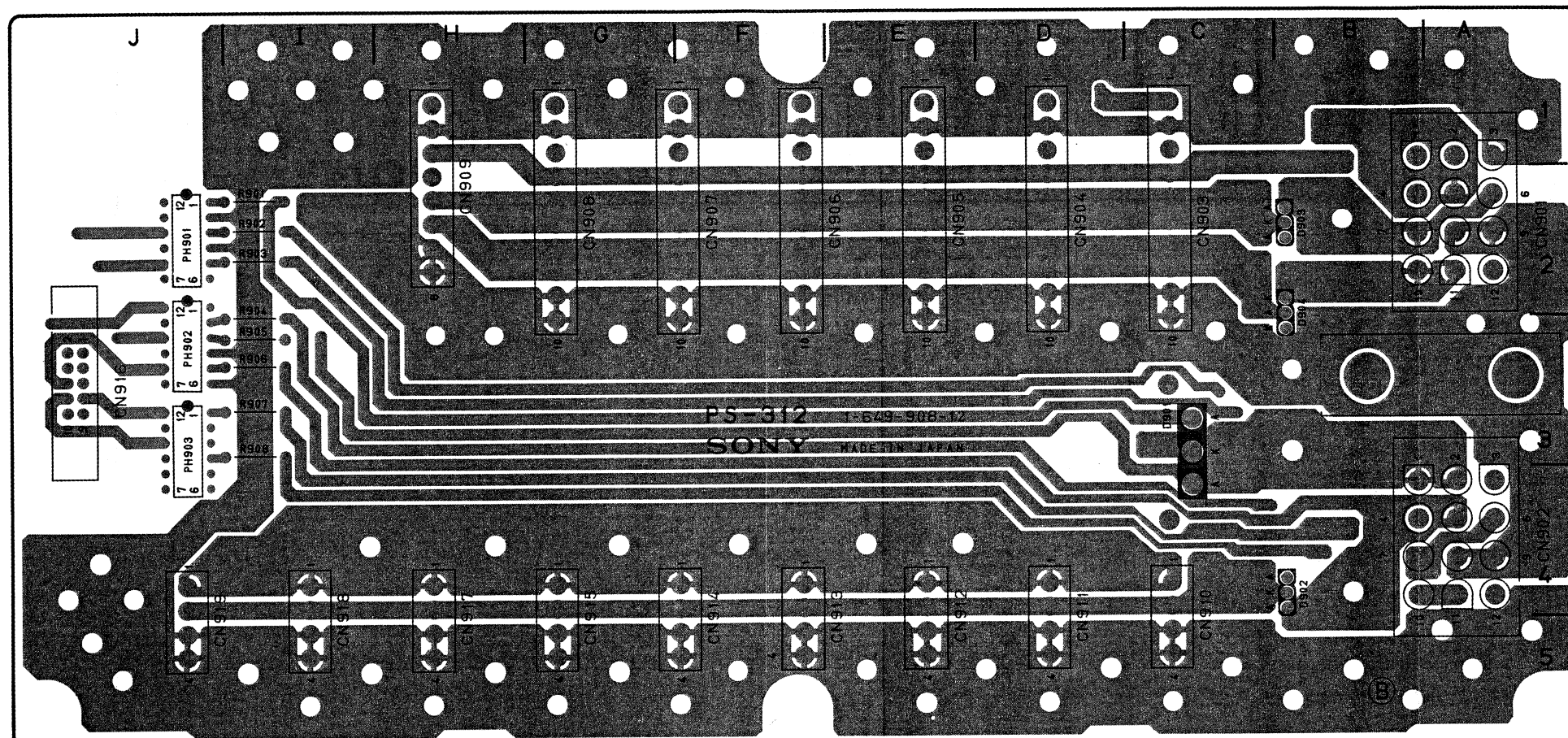
3-16

PS-312

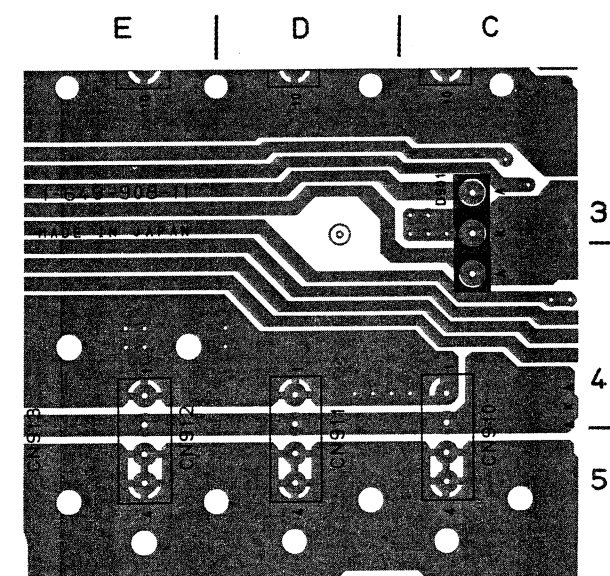
B (Soldering) Side

PS-312 BOARD
1-649-908-11, 12

CN901	A
CN902	A
CN903	A
CN904	A
CN905	A
CN906	A
CN907	A
CN908	A
CN909	A
CN910	A
CN911	A
CN912	A
CN913	A
CN914	A
CN915	A
CN916	A
CN917	A
CN918	A
CN919	A
D901	B
D902	B
D903	B
D904	B
PH901	C
PH902	C
PH903	C



1-649-908-11, 12



1-649-908-11 only

DMBK-4010 (OPTION) **SW-604**
DMX-B4008/B4016 CONSOLE

SW-604 DMBK-4010 (OPTION)
DMX-B4008/B4016 CONSOLE

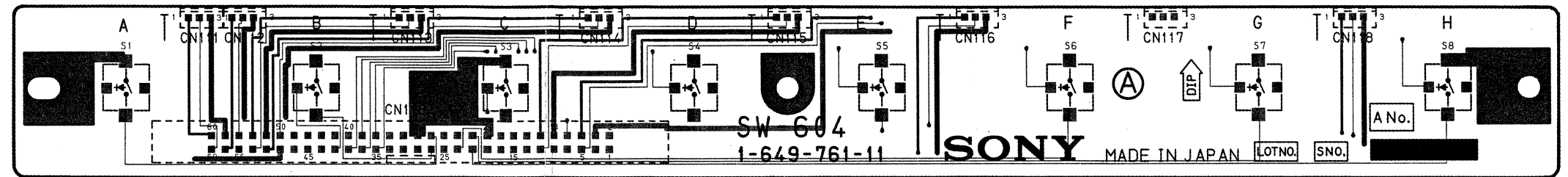
SW-604

A (Component) Side

SW-604 BOARD
1-649-761-11

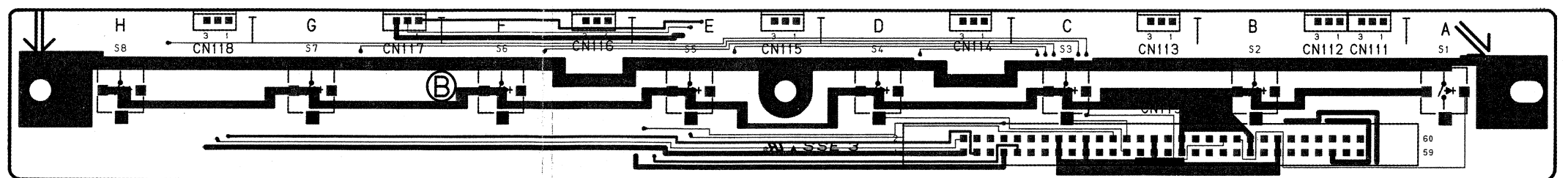
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*: B (Soldering) Side mount



1-649-761-11

B (Soldering) Side



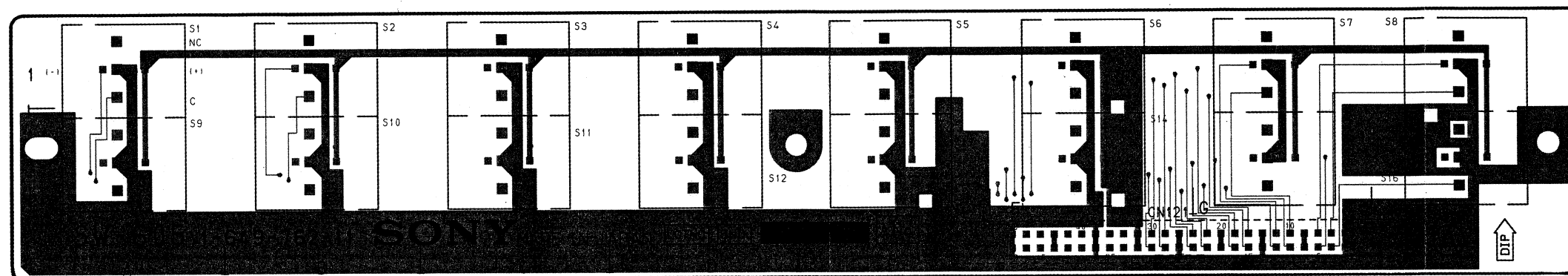
1-649-761-11

DMBK-4010 (OPTION) **SW-605**
DMX-B4008/B4016 CONSOLE

SW-605 DMBK-4010 (OPTION)
DMX-B4008/B4016 CONSOLE

SW-605

A (Component) Side



1-649-762-11

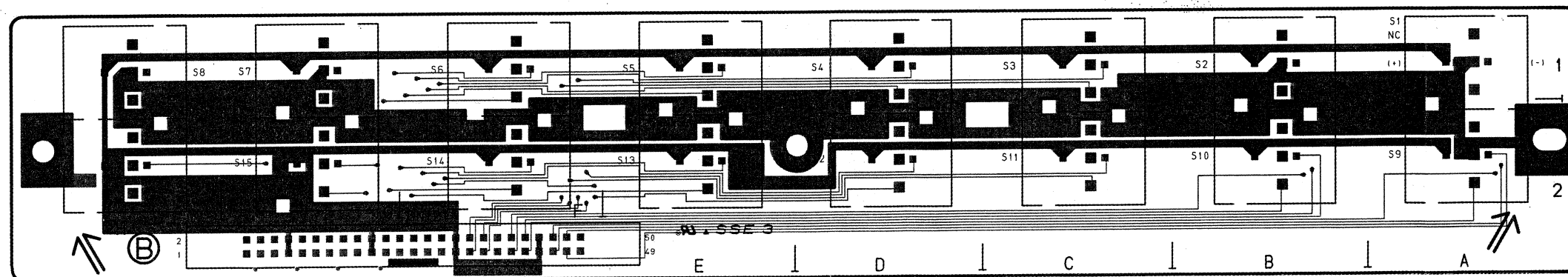
SW-605 BOARD
1-649-762-11

CN121 *F-12

S1
S2
S3
S4
S5
S6
S7
S8
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S10
S11
S12
S13
S14
S15
CN121
DIP

* : B (Soldering) Side mount

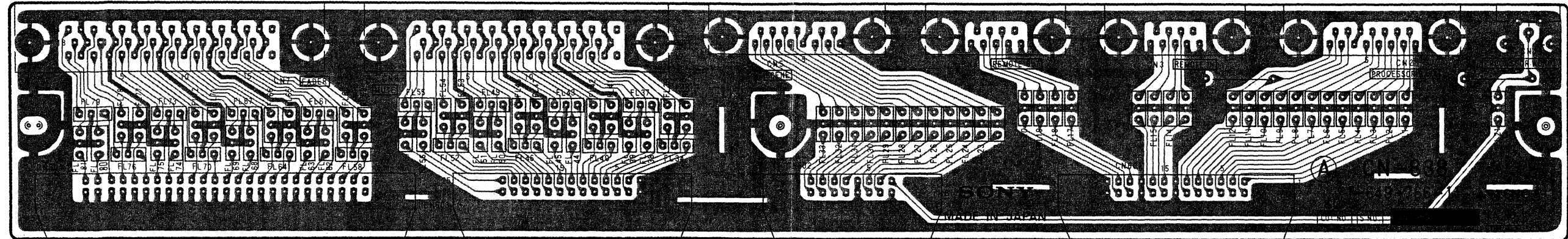
B (Soldering) Side



1-649-762-11

CN-838

A (Component) Side



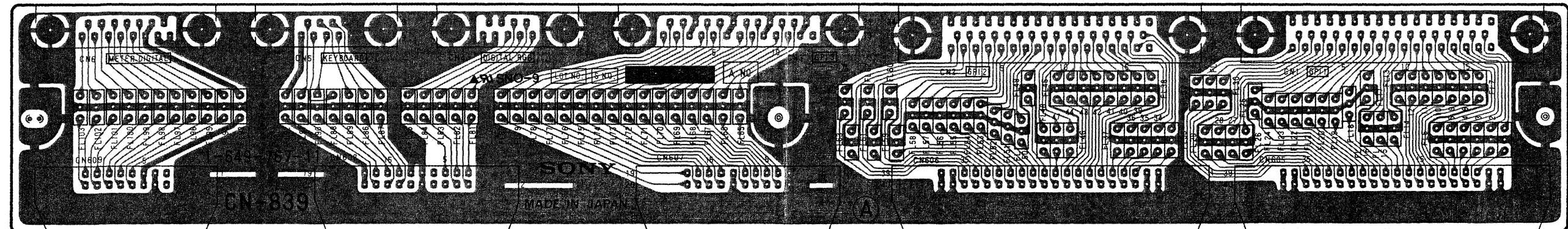
1-649-766-11

CN-838 BOARD
1-649-766-11

CN1	D
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CN3	1
CN4	1
CN5	1
CN6	1
CN7	1
CN8	1
CN9	1
CN10	1
CN11	1
CN12	1
CN13	1
CN14	1
CN15	1
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CN100	1

CN-839

A (Component) Side



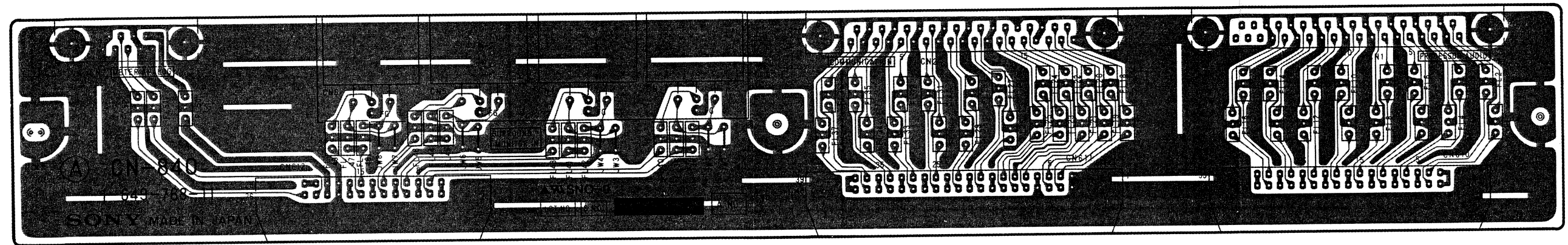
1-649-767-11

CN-839 BOARD
1-649-767-11

CN1	D
CN2	1
CN3	1
CN4	1
CN5	1
CN6	1
CN7	1
CN8	1
CN9	1
CN10	1
CN11	1
CN12	1
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CN99	1
CN100	1

CN-840A/840B
DMX-B4008/B4016 CONSOLE

A (Component) Side



1-649-768-11

CN-840A/840B BOARD
1-649-768-11

CN1	D.
CN2	C.
CN3	B.
CN4	B.
CN5	B.
CN6	B.
CN7	A.
CN610	D.
CN611	C.
CN612	A.

MIC, SW-606, VR-165
DMX-B4008/B4016 CONSOLE

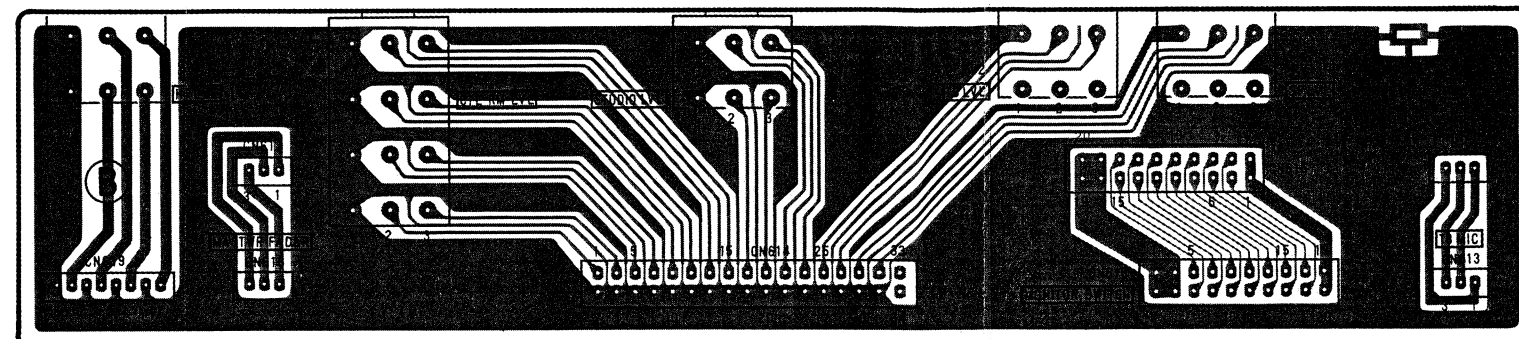
MIC, SW-606, VR-165
DMX-B4008/B4016 CONSOLE

VR-165

B (Soldering) Side

VR-165 BOARD
1-649-754-11

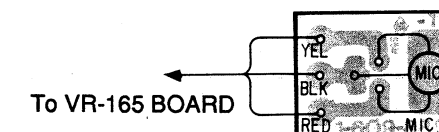
CN101	A-2
CN103	A-2
CN104	A-2
CN105	A-2
CN106	A-2
CN107	A-2
CN108	A-2
CN109	A-2
RV1	A-1
RV2	A-1
RV3	A-1
RV4	A-1
RV5	A-1



1-649-754-11

MIC

A (Component) Side



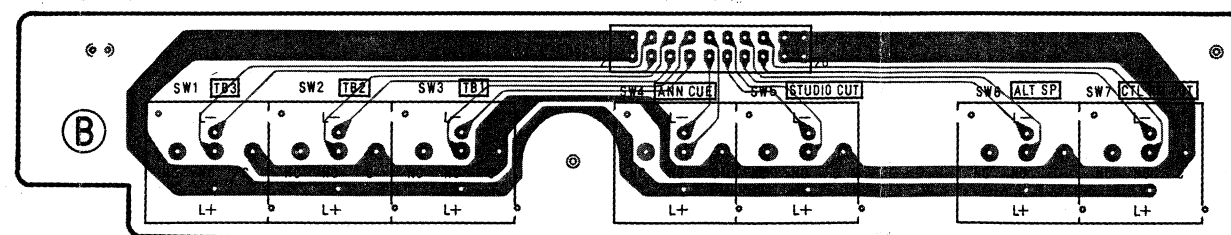
1-609-885-11

SW-606

B (Soldering) Side

SW-606 BOARD
1-649-755-11

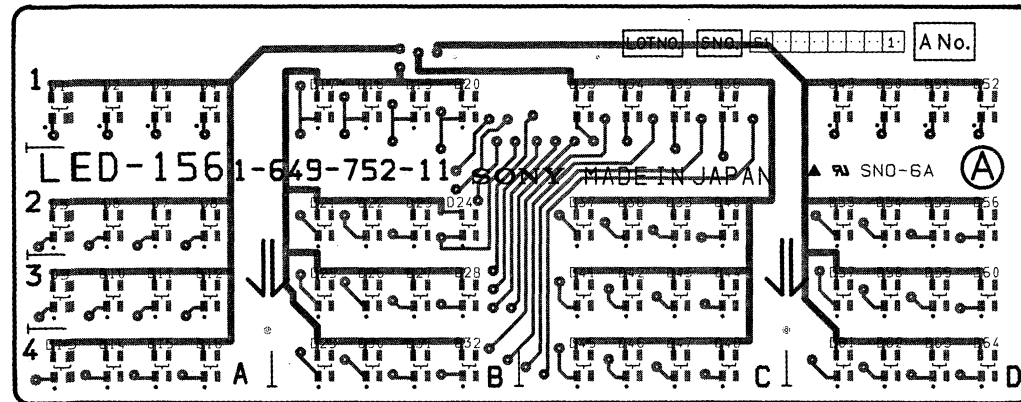
SW1	B-1
SW2	B-1
SW3	B-1
SW4	A-1
SW5	A-1
SW6	A-1
SW7	A-1



1-649-755-11

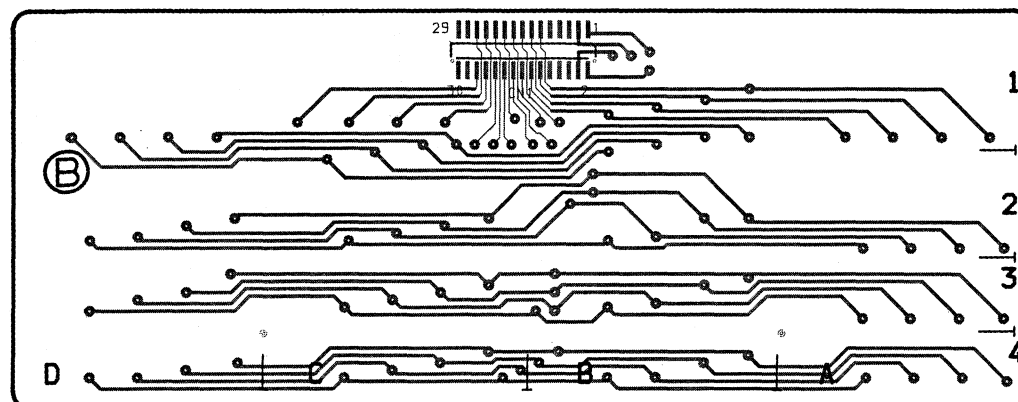
LED-156

A (Component) Side



1-649-752-11

B (Soldering) Side



1-649-752-11

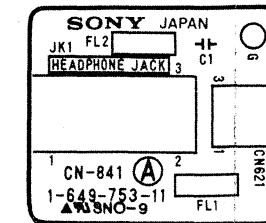
LED-156 BOARD
1-649-752-11

CN1	*C-1
D1	A-1
D2	A-1
D3	A-1
D4	A-2
D5	A-2
D6	A-2
D7	A-3
D8	A-3
D9	A-3
D10	A-3
D11	A-3
D12	A-3
D13	A-4
D14	A-4
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D98	A-4
D99	A-4
D100	A-4

*: B (Soldering) Side mount

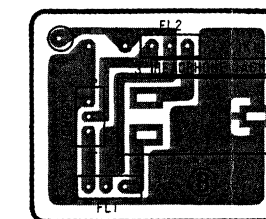
CN-841

A (Component) Side



1-649-753-11

B (Soldering) Side



1-649-753-11

3-2. DMX-B4008 PROCESSOR

CPU-164

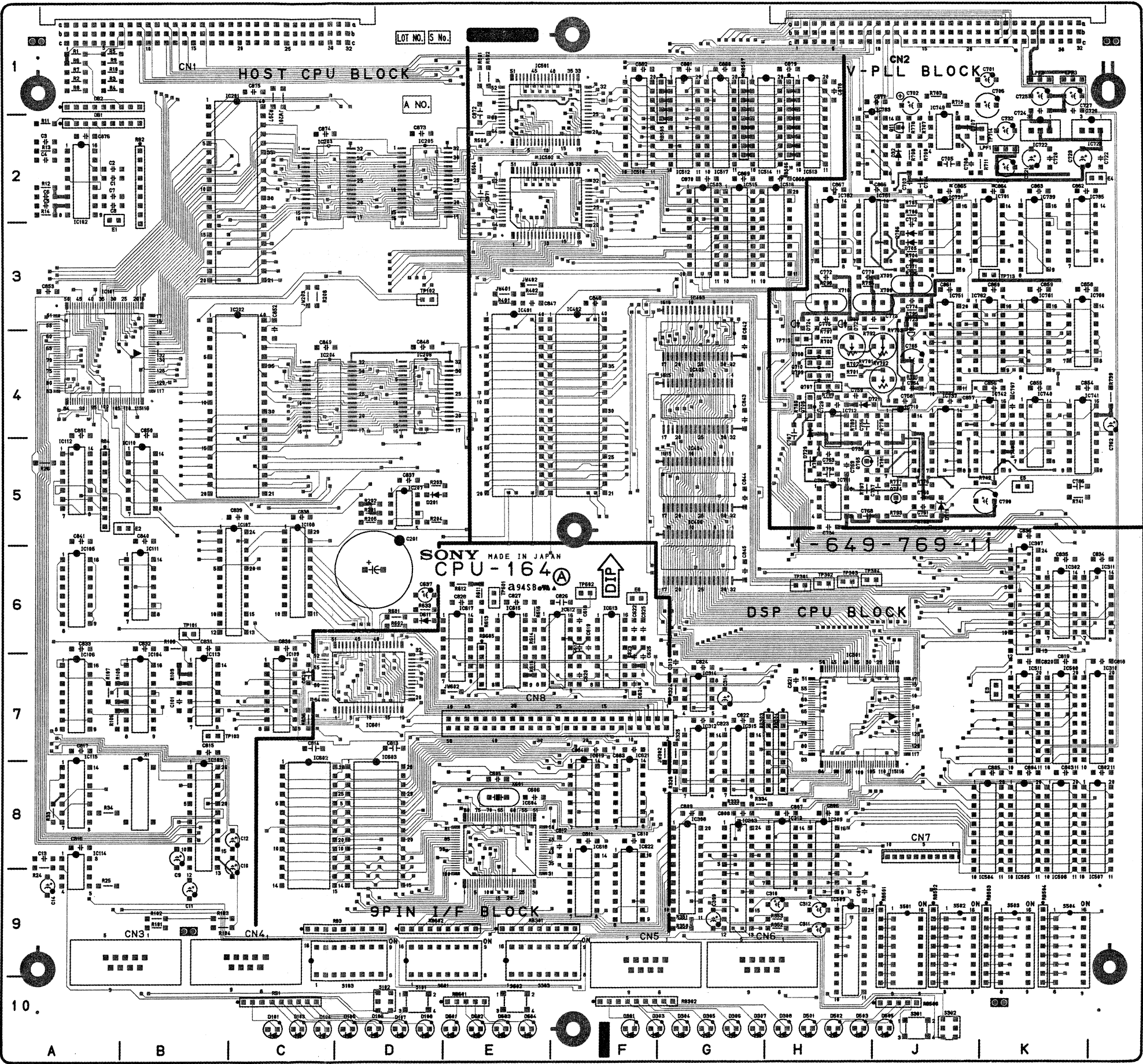
A (Component) Side

CPU-164 BOARD
1-649-769-11

Q101 Q102 Q103 Q104 Q105 Q106 Q107 Q108 Q109 Q110 Q111 Q112 Q113 Q114 Q115 Q116 Q117 Q118 Q119 Q120 Q121 Q122 Q123 Q124 Q125 Q126 Q127 Q128 Q129 Q130 Q131 Q132 Q133 Q134 Q135 Q136 Q137 Q138 Q139 Q140 Q141 Q142 Q143 Q144 Q145 Q146 Q147 Q148 Q149 Q150 Q151 Q152 Q153 Q154 Q155 Q156 Q157 Q158 Q159 Q160 Q161 Q162 Q163 Q164 Q165 Q166 Q167 Q168 Q169 Q170 Q171 Q172 Q173 Q174 Q175 Q176 Q177 Q178 Q179 Q180 Q181 Q182 Q183 Q184 Q185 Q186 Q187 Q188 Q189 Q190 Q191 Q192 Q193 Q194 Q195 Q196 Q197 Q198 Q199 Q200 Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q209 Q210 Q211 Q212 Q213 Q214 Q215 Q216 Q217 Q218 Q219 Q220 Q221 Q222 Q223 Q224 Q225 Q226 Q227 Q228 Q229 Q230 Q231 Q232 Q233 Q234 Q235 Q236 Q237 Q238 Q239 Q240 Q241 Q242 Q243 Q244 Q245 Q246 Q247 Q248 Q249 Q250 Q251 Q252 Q253 Q254 Q255 Q256 Q257 Q258 Q259 Q260 Q261 Q262 Q263 Q264 Q265 Q266 Q267 Q268 Q269 Q270 Q271 Q272 Q273 Q274 Q275 Q276 Q277 Q278 Q279 Q280 Q281 Q282 Q283 Q284 Q285 Q286 Q287 Q288 Q289 Q290 Q291 Q292 Q293 Q294 Q295 Q296 Q297 Q298 Q299 Q300 Q301 Q302 Q303 Q304 Q305 Q306 Q307 Q308 Q309 Q310 Q311 Q312 Q313 Q314 Q315 Q316 Q317 Q318 Q319 Q320 Q321 Q322 Q323 Q324 Q325 Q326 Q327 Q328 Q329 Q330 Q331 Q332 Q333 Q334 Q335 Q336 Q337 Q338 Q339 Q340 Q341 Q342 Q343 Q344 Q345 Q346 Q347 Q348 Q349 Q350 Q351 Q352 Q353 Q354 Q355 Q356 Q357 Q358 Q359 Q360 Q361 Q362 Q363 Q364 Q365 Q366 Q367 Q368 Q369 Q370 Q371 Q372 Q373 Q374 Q375 Q376 Q377 Q378 Q379 Q380 Q381 Q382 Q383 Q384 Q385 Q386 Q387 Q388 Q389 Q390 Q391 Q392 Q393 Q394 Q395 Q396 Q397 Q398 Q399 Q400 Q401 Q402 Q403 Q404 Q405 Q406 Q407 Q408 Q409 Q410 Q411 Q412 Q413 Q414 Q415 Q416 Q417 Q418 Q419 Q420 Q421 Q422 Q423 Q424 Q425 Q426 Q427 Q428 Q429 Q430 Q431 Q432 Q433 Q434 Q435 Q436 Q437 Q438 Q439 Q440 Q441 Q442 Q443 Q444 Q445 Q446 Q447 Q448 Q449 Q450 Q451 Q452 Q453 Q454 Q455 Q456 Q457 Q458 Q459 Q460 Q461 Q462 Q463 Q464 Q465 Q466 Q467 Q468 Q469 Q470 Q471 Q472 Q473 Q474 Q475 Q476 Q477 Q478 Q479 Q480 Q481 Q482 Q483 Q484 Q485 Q486 Q487 Q488 Q489 Q490 Q491 Q492 Q493 Q494 Q495 Q496 Q497 Q498 Q499 Q500 Q501 Q502 Q503 Q504 Q505 Q506 Q507 Q508 Q509 Q510 Q511 Q512 Q513 Q514 Q515 Q516 Q517 Q518 Q519 Q520 Q521 Q522 Q523 Q524 Q525 Q526 Q527 Q528 Q529 Q530 Q531 Q532 Q533 Q534 Q535 Q536 Q537 Q538 Q539 Q540 Q541 Q542 Q543 Q544 Q545 Q546 Q547 Q548 Q549 Q550 Q551 Q552 Q553 Q554 Q555 Q556 Q557 Q558 Q559 Q560 Q561 Q562 Q563 Q564 Q565 Q566 Q567 Q568 Q569 Q570 Q571 Q572 Q573 Q574 Q575 Q576 Q577 Q578 Q579 Q580 Q581 Q582 Q583 Q584 Q585 Q586 Q587 Q588 Q589 Q590 Q591 Q592 Q593 Q594 Q595 Q596 Q597 Q598 Q599 Q600 Q601 Q602 Q603 Q604 Q605 Q606 Q607 Q608 Q609 Q610 Q611 Q612 Q613 Q614 Q615 Q616 Q617 Q618 Q619 Q620 Q621 Q622 Q623 Q624 Q625 Q626 Q627 Q628 Q629 Q630 Q631 Q632 Q633 Q634 Q635 Q636 Q637 Q638 Q639 Q640 Q641 Q642 Q643 Q644 Q645 Q646 Q647 Q648 Q649 Q650 Q651 Q652 Q653 Q654 Q655 Q656 Q657 Q658 Q659 Q660 Q661 Q662 Q663 Q664 Q665 Q666 Q667 Q668 Q669 Q670 Q671 Q672 Q673 Q674 Q675 Q676 Q677 Q678 Q679 Q680 Q681 Q682 Q683 Q684 Q685 Q686 Q687 Q688 Q689 Q690 Q691 Q692 Q693 Q694 Q695 Q696 Q697 Q698 Q699 Q700 Q701 Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709 Q710 Q711 Q712 Q713 Q714 Q715 Q716 Q717 Q718 Q719 Q720 Q721 Q722 Q723 Q724 Q725 Q726 Q727 Q728 Q729 Q730 Q731 Q732 Q733 Q734 Q735 Q736 Q737 Q738 Q739 Q740 Q741 Q742 Q743 Q744 Q745 Q746 Q747 Q748 Q749 Q750 Q751 Q752 Q753 Q754 Q755 Q756 Q757 Q758 Q759 Q760 Q761 Q762 Q763 Q764 Q765 Q766 Q767 Q768 Q769 Q770 Q771 Q772 Q773 Q774 Q775 Q776 Q777 Q778 Q779 Q780 Q781 Q782 Q783 Q784 Q785 Q786 Q787 Q788 Q789 Q790 Q791 Q792 Q793 Q794 Q795 Q796 Q797 Q798 Q799 Q800 Q801 Q802 Q803 Q804 Q805 Q806 Q807 Q808 Q809 Q810 Q811 Q812 Q813 Q814 Q815 Q816 Q817 Q818 Q819 Q820 Q821 Q822 Q823 Q824 Q825 Q826 Q827 Q828 Q829 Q830 Q831 Q832 Q833 Q834 Q835 Q836 Q837 Q838 Q839 Q840 Q841 Q842 Q843 Q844 Q845 Q846 Q847 Q848 Q849 Q850 Q851 Q852 Q853 Q854 Q855 Q856 Q857 Q858 Q859 Q860 Q861 Q862 Q863 Q864 Q865 Q866 Q867 Q868 Q869 Q870 Q871 Q872 Q873 Q874 Q875 Q876 Q877 Q878 Q879 Q880 Q881 Q882 Q883 Q884 Q885 Q886 Q887 Q888 Q889 Q890 Q891 Q892 Q893 Q894 Q895 Q896 Q897 Q898 Q899 Q900 Q901 Q902 Q903 Q904 Q905 Q906 Q907 Q908 Q909 Q910 Q911 Q912 Q913 Q914 Q915 Q916 Q917 Q918 Q919 Q920 Q921 Q922 Q923 Q924 Q925 Q926 Q927 Q928 Q929 Q930 Q931 Q932 Q933 Q934 Q935 Q936 Q937 Q938 Q939 Q940 Q941 Q942 Q943 Q944 Q945 Q946 Q947 Q948 Q949 Q950 Q951 Q952 Q953 Q954 Q955 Q956 Q957 Q958 Q959 Q960 Q961 Q962 Q963 Q964 Q965 Q966 Q967 Q968 Q969 Q970 Q971 Q972 Q973 Q974 Q975 Q976 Q977 Q978 Q979 Q980 Q981 Q982 Q983 Q984 Q985 Q986 Q987 Q988 Q989 Q990 Q991 Q992 Q993 Q994 Q995 Q996 Q997 Q998 Q999 1000

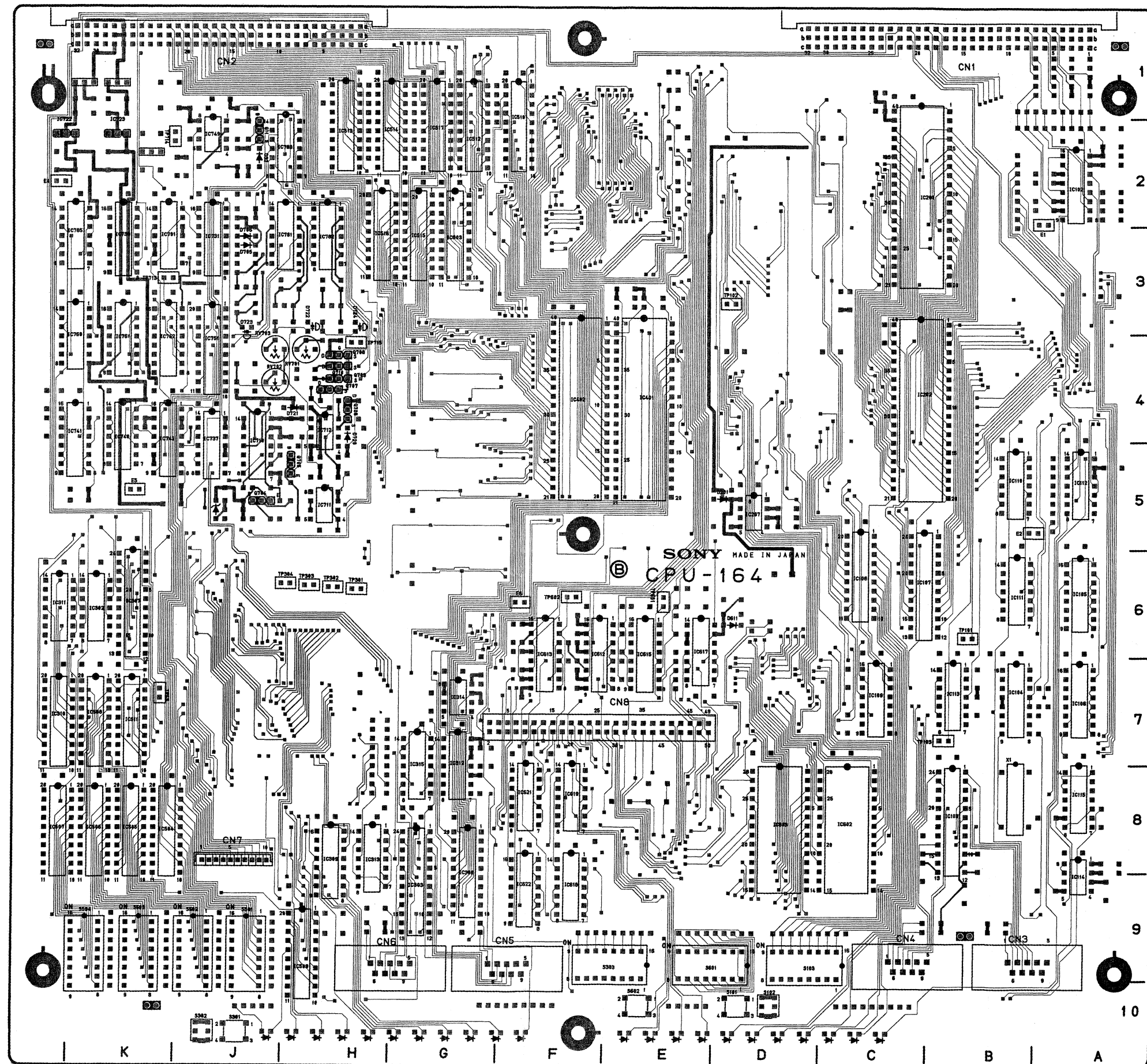
CPU-164
DMX-B4008 PROCESSOR

CPU-164
DMX-B4008 PROCESSOR



B (Soldering) Side

CPU-164
DMX-B4008 PROCESSOR



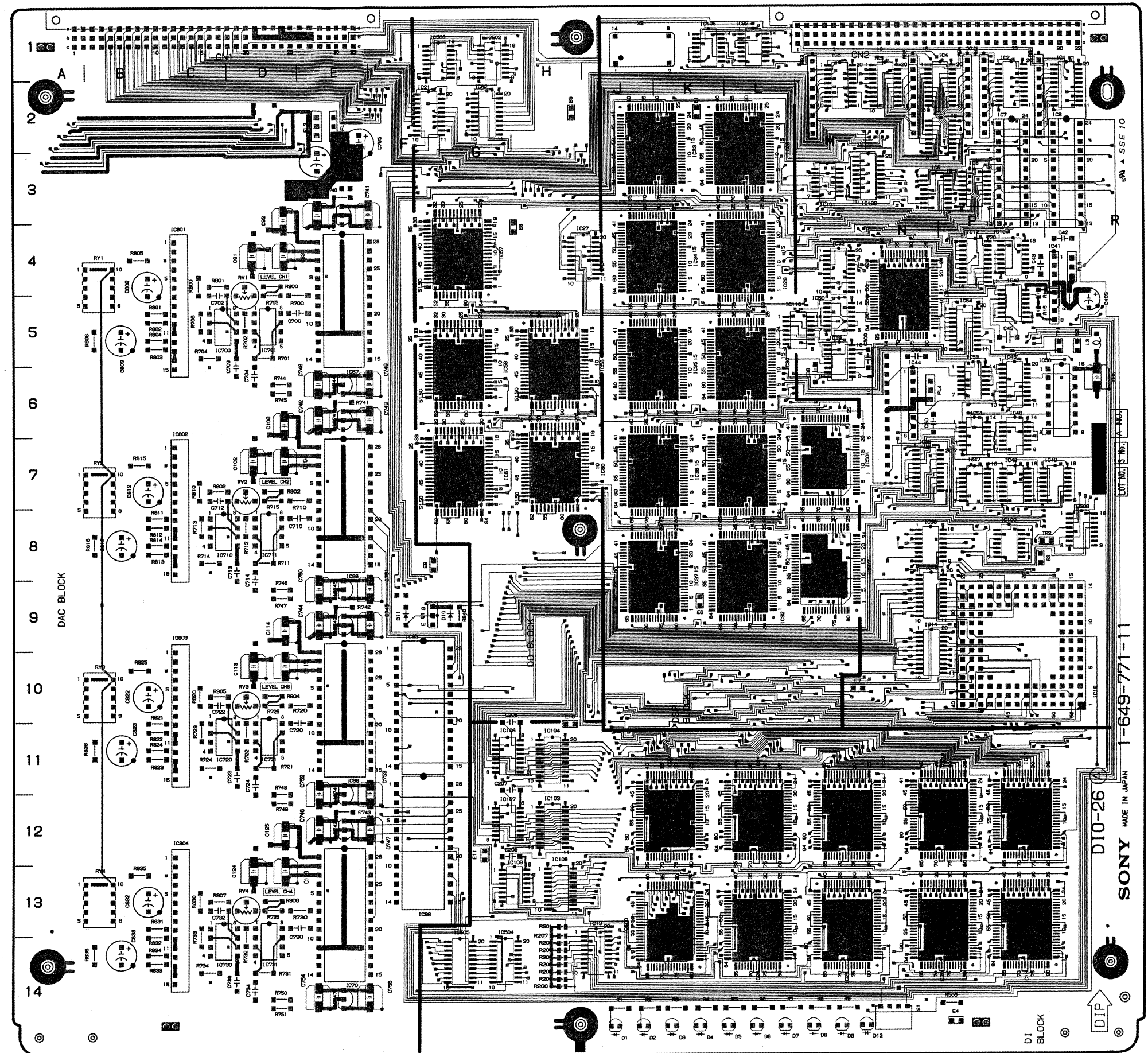
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CN02	OB-1.1	RV702	L4
CN03	OB-1.1	RV703	L4
CN04	OB-1.1	S101	D
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CN06	OB-1.1	S103	D
CN07	OB-1.1	S301	D
CN08	OB-1.1	S302	D
CN09	OB-1.1	S303	D
CN10	OB-1.1	S501	D
CN11	OB-1.1	S502	D
CN12	OB-1.1	S503	D
CN13	OB-1.1	S504	D
CN14	OB-1.1	TP101	D
CN15	OB-1.1	TP102	D
CN16	OB-1.1	TP103	D
CN17	OB-1.1	TP104	D
CN18	OB-1.1	TP105	D
CN19	OB-1.1	TP106	D
CN20	OB-1.1	TP107	D
CN21	OB-1.1	TP108	D
CN22	OB-1.1	TP109	D
CN23	OB-1.1	TP110	D
CN24	OB-1.1	TP111	D
CN25	OB-1.1	TP112	D
CN26	OB-1.1	TP113	D
CN27	OB-1.1	TP114	D
CN28	OB-1.1	TP115	D
CN29	OB-1.1	TP116	D
CN30	OB-1.1	TP117	D
CN31	OB-1.1	TP118	D
CN32	OB-1.1	TP119	D
CN33	OB-1.1	TP120	D
CN34	OB-1.1	TP121	D
CN35	OB-1.1	TP122	D
CN36	OB-1.1	TP123	D
CN37	OB-1.1	TP124	D
CN38	OB-1.1	TP125	D
CN39	OB-1.1	TP126	D
CN40	OB-1.1	TP127	D
CN41	OB-1.1	TP128	D
CN42	OB-1.1	TP129	D
CN43	OB-1.1	TP130	D
CN44	OB-1.1	TP131	D
CN45	OB-1.1	TP132	D
CN46	OB-1.1	TP133	D
CN47	OB-1.1	TP134	D
CN48	OB-1.1	TP135	D
CN49	OB-1.1	TP136	D
CN50	OB-1.1	TP137	D
CN51	OB-1.1	TP138	D
CN52	OB-1.1	TP139	D
CN53	OB-1.1	TP140	D
CN54	OB-1.1	TP141	D
CN55	OB-1.1	TP142	D
CN56	OB-1.1	TP143	D
CN57	OB-1.1	TP144	D
CN58	OB-1.1	TP145	D
CN59	OB-1.1	TP146	D
CN60	OB-1.1	TP147	D
CN61	OB-1.1	TP148	D
CN62	OB-1.1	TP149	D
CN63	OB-1.1	TP150	D
CN64	OB-1.1	TP151	D
CN65	OB-1.1	TP152	D
CN66	OB-1.1	TP153	D
CN67	OB-1.1	TP154	D
CN68	OB-1.1	TP155	D
CN69	OB-1.1	TP156	D
CN70	OB-1.1	TP157	D
CN71	OB-1.1	TP158	D
CN72	OB-1.1	TP159	D
CN73	OB-1.1	TP160	D
CN74	OB-1.1	TP161	D
CN75	OB-1.1	TP162	D
CN76	OB-1.1	TP163	D
CN77	OB-1.1	TP164	D
CN78	OB-1.1	TP165	D
CN79	OB-1.1	TP166	D
CN80	OB-1.1	TP167	D
CN81	OB-1.1	TP168	D
CN82	OB-1.1	TP169	D
CN83	OB-1.1	TP170	D
CN84	OB-1.1	TP171	D
CN85	OB-1.1	TP172	D
CN86	OB-1.1	TP173	D
CN87	OB-1.1	TP174	D
CN88	OB-1.1	TP175	D
CN89	OB-1.1	TP176	D
CN90	OB-1.1	TP177	D
CN91	OB-1.1	TP178	D
CN92	OB-1.1	TP179	D
CN93	OB-1.1	TP180	D
CN94	OB-1.1	TP181	D
CN95	OB-1.1	TP182	D
CN96	OB-1.1	TP183	D
CN97	OB-1.1	TP184	D
CN98	OB-1.1	TP185	D
CN99	OB-1.1	TP186	D
CN100	OB-1.1	TP187	D
CN101	OB-1.1	TP188	D
CN102	OB-1.1	TP189	D
CN103	OB-1.1	TP190	D
CN104	OB-1.1	TP191	D
CN105	OB-1.1	TP192	D
CN106	OB-1.1	TP193	D
CN107	OB-1.1	TP194	D
CN108	OB-1.1	TP195	D
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CN110	OB-1.1	TP197	D
CN111	OB-1.1		

A (Component) Side

[illegible]

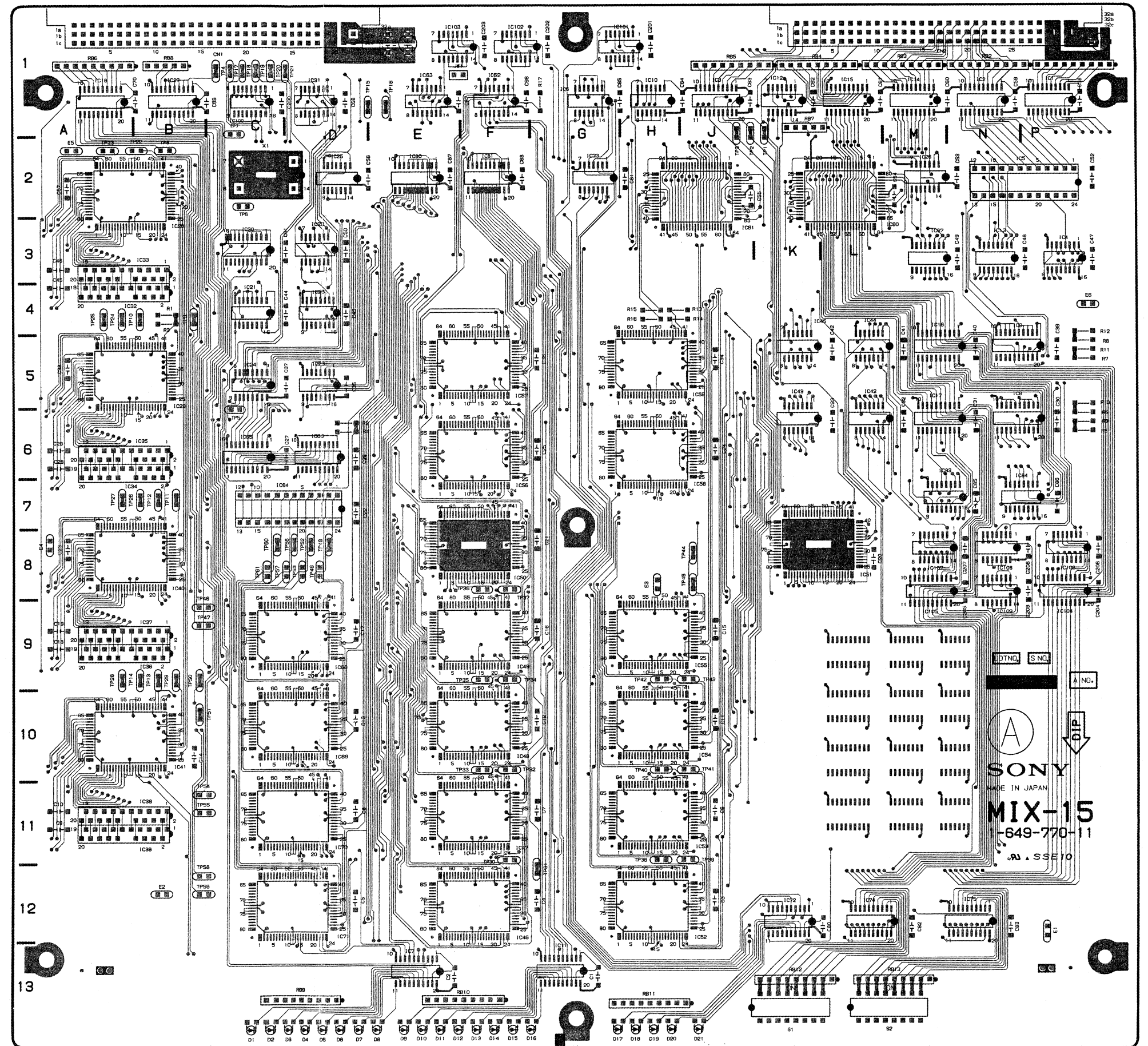
Q1
RV1
RV2
RV3
RV4
RY1
RY2
RY3
RY4
S1
TP1
TP2
X1
X2

F-9
D-4
D-7
D-10
D-13
B-4
B-7
B-10
B-13
N-14
R-5
P-8
N-7
J-1



A (Component) Side

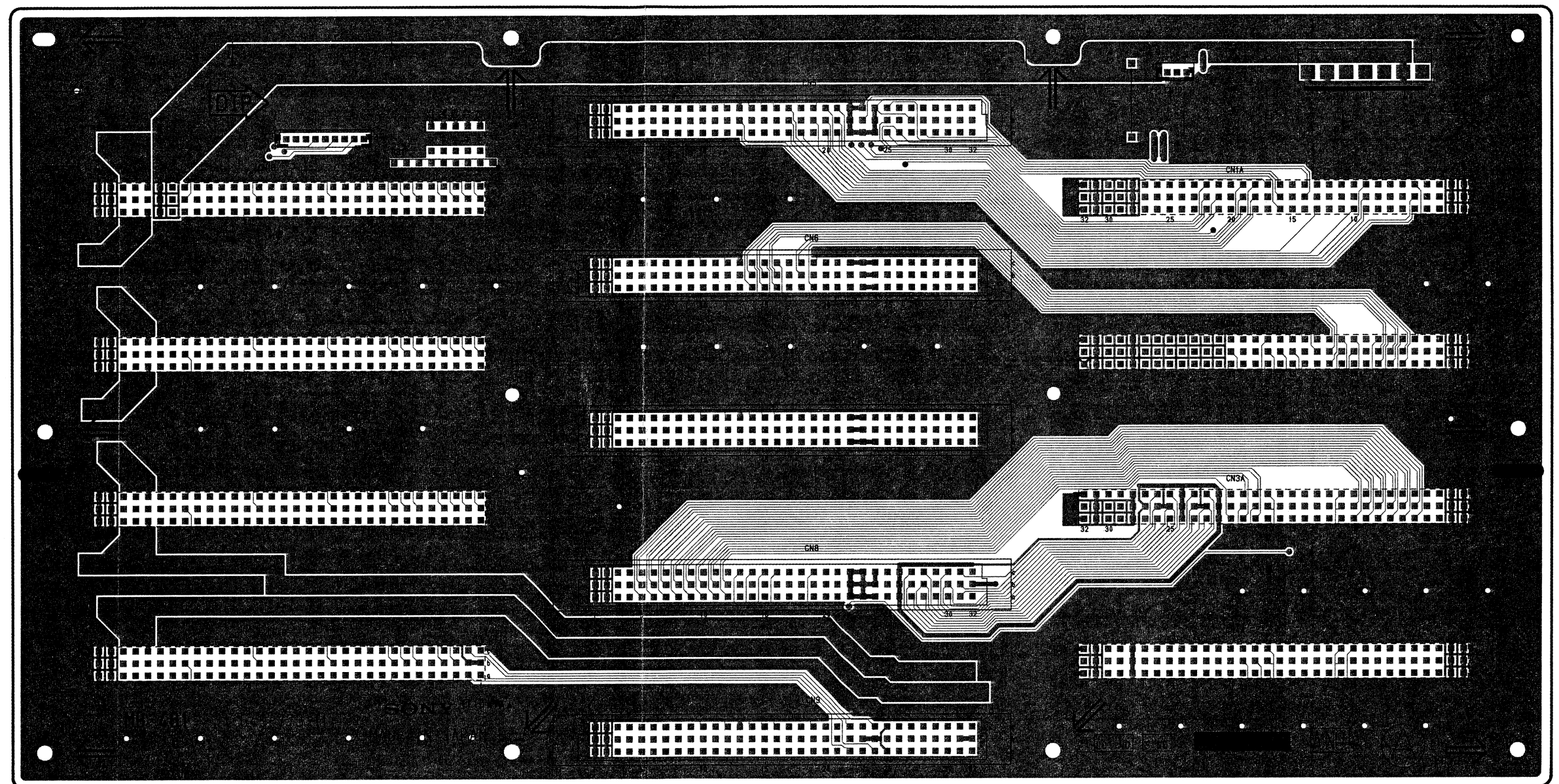
MIX-15 BOARD
1-649-770-11

[illegible]

A (Component) Side

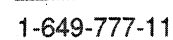
CN5	F-2
CN6	F-3
CN7	F-6
CN8	F-8
CN9	F-10
CN1A	*H-2
CN1B	*B-3
CN10	G-1
CN11	-1
CN12	B-2
CN3A	*H-6
CN3B	*B-7
CN4A	*H-9
CN4B	*B-9

* : B (Soldering) Side mount

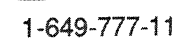


1-649-773-11

A (Component) Side

[illegible]

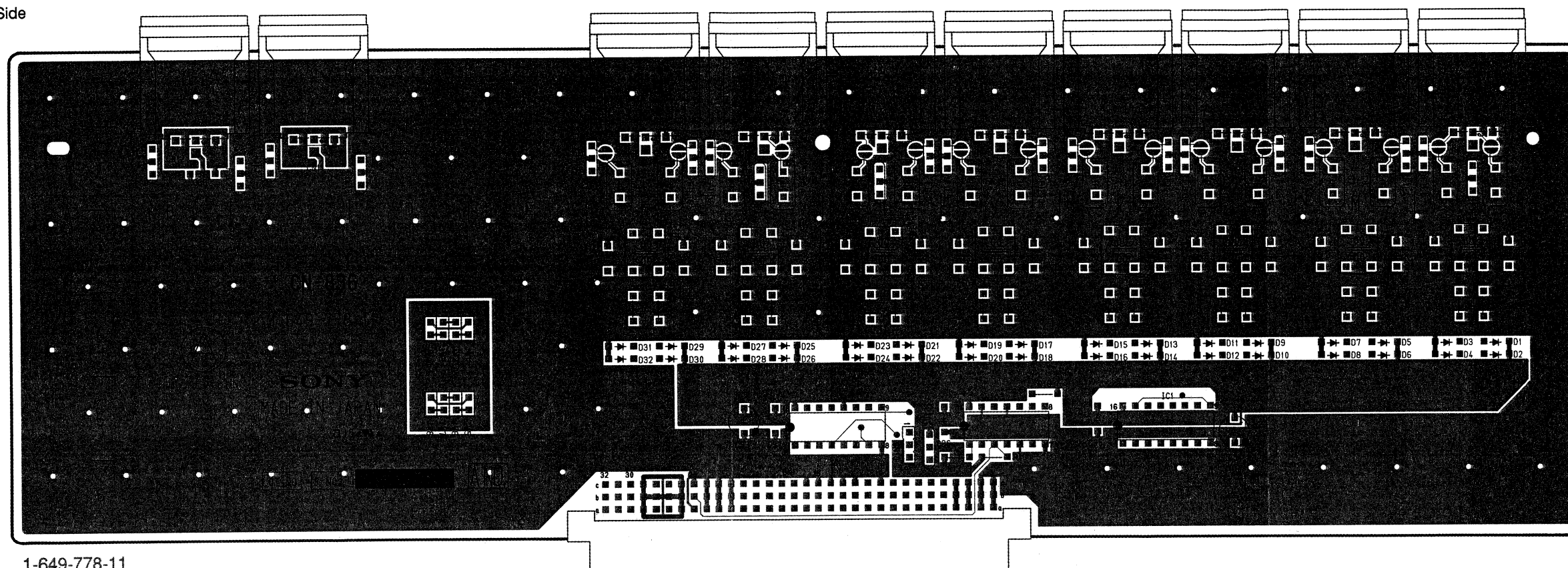
B (Soldering) Side



DMX-B4008 PROCESSOR

DMX-B4008 PROCESSOR

A (Component) Side



1-649-778-11

CN-836 BOARD
1-649-778-11

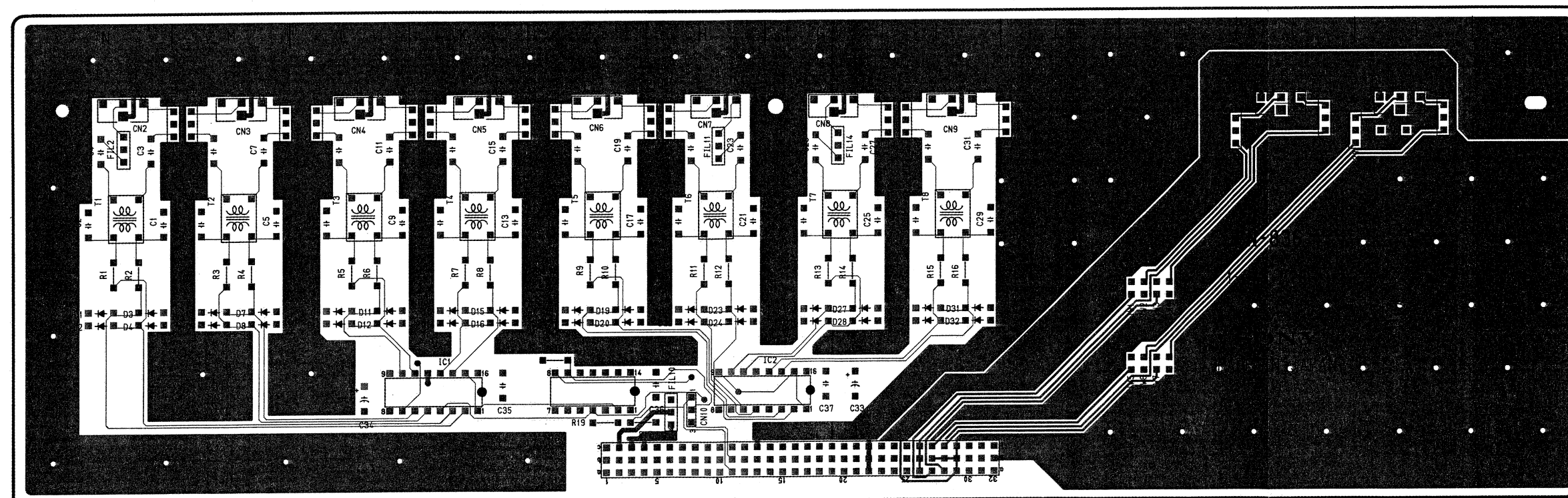
CN1	G
CN2	M
CN3	M
CN4	K
CN5	K
CN6	J
CN7	O
CN8	T
CN9	F
CN10	F
D1	Z
D2	N
D3	N
D4	N
D5	M
D6	M
D7	M
D8	M
D9	L
D10	L
D11	L
D12	K
D13	K
D14	K
D15	K
D16	K
D17	J
D18	J
D19	J
D20	J
D21	L
D22	L
D23	L
D24	L
D25	G
D26	G
D27	G
D28	G
D29	F
D30	F
D31	F
D32	F
IC1	K
IC2	K
IC3	L

G-6
N-2
M-2
L-2
K-2
J-2
H-2
G-2
F-2
H-5

N-4
N-4
N-4
N-4
M-4
M-4
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M-4
L-4
L-4
L-4
K-4
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K-4
J-4
J-4
J-4
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G-4
F-4
F-4
F-4

K-5
G-5
J-5

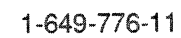
B (Soldering) Side



1-649-778-11

A (Component) Side

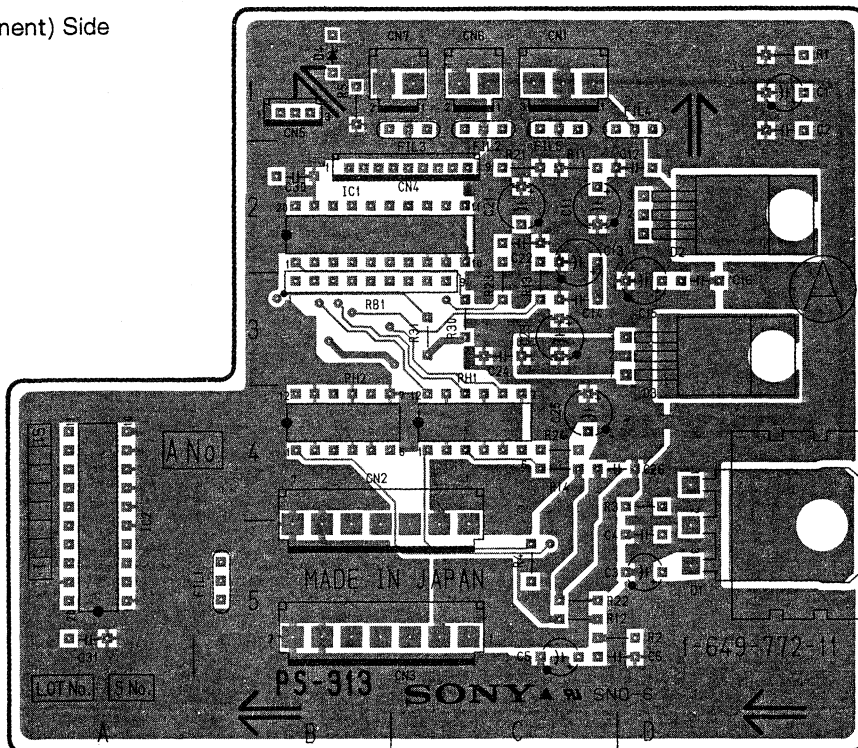
CN1	G-5
CN2	J-1
CN3	M-1
CN4	L-1
CN5	B-1
D1	J-3
D2	J-4
D3	L-4
D4	L-3
D5	M-4
D6	M-3
D7	M-4
D8	M-3
D9	L-4
D10	L-3
D11	K-3
D12	K-2
IC1	K-4
IC2	M-5
IC3	J-5
IC4	L-4
IC5	L-5
IC6	T-5
IC7	T-6
IC8	D-6
IC9	D-5
IC10	D-2
IC11	T-1
IC12	T-2
IC13	T-3
IC14	T-4
RV1	G1
RV2	G2



3-36

PS-313

A (Component) Side

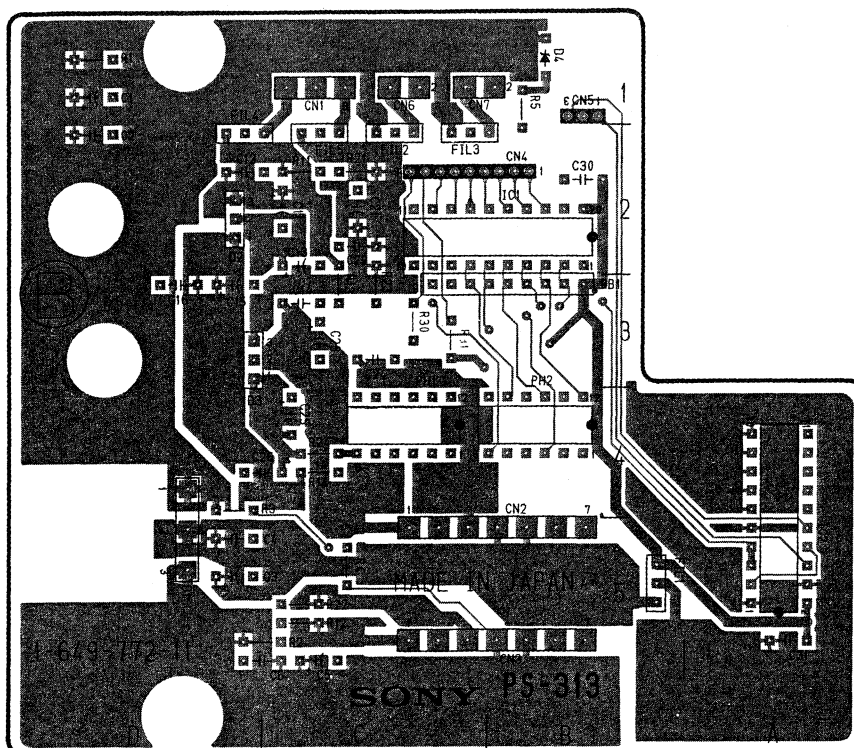


1-649-772-11

PS-313 BOARD
1-649-772-11

CN1	C-1
CN2	B-4
CN3	C-5
CN4	B-1, 1
CN5	C-1
CN6	C-1
D1	D-5
D2	D-2
D3	D-4
D4	B-1
IC1	B-2
IC2	A-5
PH1	C-3
PH2	B-3

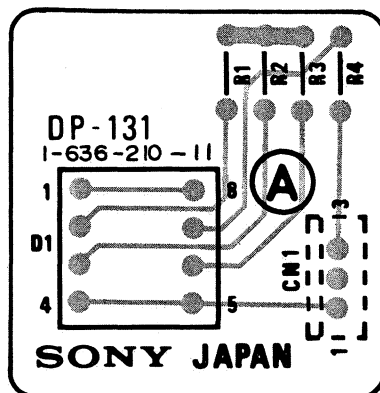
B (Soldering) Side



1-649-772-11

DP-131

A (Component) Side

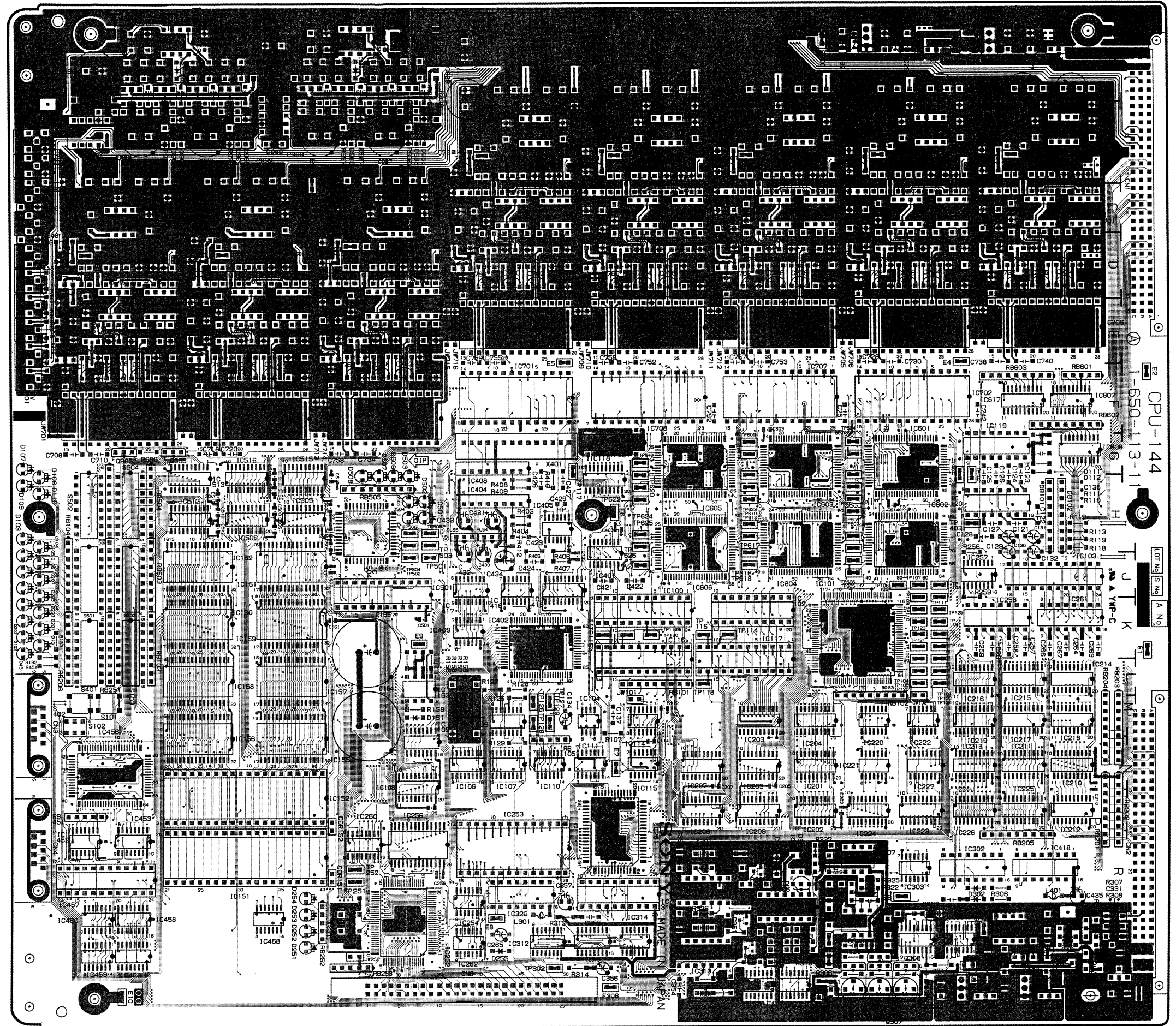


1-636-210-11

CPU-144	CPU-144
DMX-B4016 PROCESSOR	DMX-B4016 PROCESSOR
1. General 1.1. Model 1.2. Manufacturer 1.3. Year 1.4. Version 1.5. Revision 1.6. Configuration 1.7. Hardware 1.8. Software 1.9. Documentation 1.10. Support 1.11. Warranty 1.12. Notes	1. General 1.1. Model 1.2. Manufacturer 1.3. Year 1.4. Version 1.5. Revision 1.6. Configuration 1.7. Hardware 1.8. Software 1.9. Documentation 1.10. Support 1.11. Warranty 1.12. Notes

A (Component) Side

DB101	DB102	DB103	DB104	DB105	DB106	DB107	DB108	DB109	DB110	DB111	DB112	DB113	DB114	DB115	DB116	DB117	DB118	DB119	DB120	DB121	DB122	DB123	DB124	DB125	DB126	DB127	DB128	DB129	DB130	DB131	DB132	DB133	DB134	DB135	DB136	DB137	DB138	DB139	DB140	DB141	DB142	DB143	DB144	DB145	DB146	DB147	DB148	DB149	DB150	DB151	DB152	DB153	DB154	DB155	DB156	DB157	DB158	DB159	DB160	DB161	DB162	DB163	DB164	DB165	DB166	DB167	DB168	DB169	DB170	DB171	DB172	DB173	DB174	DB175	DB176	DB177	DB178	DB179	DB180	DB181	DB182	DB183	DB184	DB185	DB186	DB187	DB188	DB189	DB190	DB191	DB192	DB193	DB194	DB195	DB196	DB197	DB198	DB199	DB200	DB201	DB202	DB203	DB204	DB205	DB206	DB207	DB208	DB209	DB210	DB211	DB212	DB213	DB214	DB215	DB216	DB217	DB218	DB219	DB220	DB221	DB222	DB223	DB224	DB225	DB226	DB227	DB228	DB229	DB230	DB231	DB232	DB233	DB234	DB235	DB236	DB237	DB238	DB239	DB240	DB241	DB242	DB243	DB244	DB245	DB246	DB247	DB248	DB249	DB250	DB251	DB252	DB253	DB254	DB255	DB256	DB257	DB258	DB259	DB260	DB261	DB262	DB263	DB264	DB265	DB266	DB267	DB268	DB269	DB270	DB271	DB272	DB273	DB274	DB275	DB276	DB277	DB278	DB279	DB280	DB281	DB282	DB283	DB284	DB285	DB286	DB287	DB288	DB289	DB290	DB291	DB292	DB293	DB294	DB295	DB296	DB297	DB298	DB299	DB300	DB301	DB302	DB303	DB304	DB305	DB306	DB307	DB308	DB309	DB310	DB311	DB312	DB313	DB314	DB315	DB316	DB317	DB318	DB319	DB320	DB321	DB322	DB323	DB324	DB325	DB326	DB327	DB328	DB329	DB330	DB331	DB332	DB333	DB334	DB335	DB336	DB337	DB338	DB339	DB340	DB341	DB342	DB343	DB344	DB345	DB346	DB347	DB348	DB349	DB350	DB351	DB352	DB353	DB354	DB355	DB356	DB357	DB358	DB359	DB360	DB361	DB362	DB363	DB364	DB365	DB366	DB367	DB368	DB369	DB370	DB371	DB372	DB373	DB374	DB375	DB376	DB377	DB378	DB379	DB380	DB381	DB382	DB383	DB384	DB385	DB386	DB387	DB388	DB389	DB390	DB391	DB392	DB393	DB394	DB395	DB396	DB397	DB398	DB399	DB400	DB401	DB402	DB403	DB404	DB405	DB406	DB407	DB408	DB409	DB410	DB411	DB412	DB413	DB414	DB415	DB416	DB417	DB418	DB419	DB420	DB421	DB422	DB423	DB424	DB425	DB426	DB427	DB428	DB429	DB430	DB431	DB432	DB433	DB434	DB435	DB436	DB437	DB438	DB439	DB440	DB441	DB442	DB443	DB444	DB445	DB446	DB447	DB448	DB449	DB450	DB451	DB452	DB453	DB454	DB455	DB456	DB457	DB458	DB459	DB460	DB461	DB462	DB463	DB464	DB465	DB466	DB467	DB468	DB469	DB470	DB471	DB472	DB473	DB474	DB475	DB476	DB477	DB478	DB479	DB480	DB481	DB482	DB483	DB484	DB485	DB486	DB487	DB488	DB489	DB490	DB491	DB492	DB493	DB494	DB495	DB496	DB497	DB498	DB499	DB500	DB501	DB502	DB503	DB504	DB505	DB506	DB507	DB508	DB509	DB510	DB511	DB512	DB513	DB514	DB515	DB516	DB517	DB518	DB519	DB520	DB521	DB522	DB523	DB524	DB525	DB526	DB527	DB528	DB529	DB530	DB531	DB532	DB533	DB534	DB535	DB536	DB537	DB538	DB539	DB540	DB541	DB542	DB543	DB544	DB545	DB546	DB547	DB548	DB549	DB550	DB551	DB552	DB553	DB554
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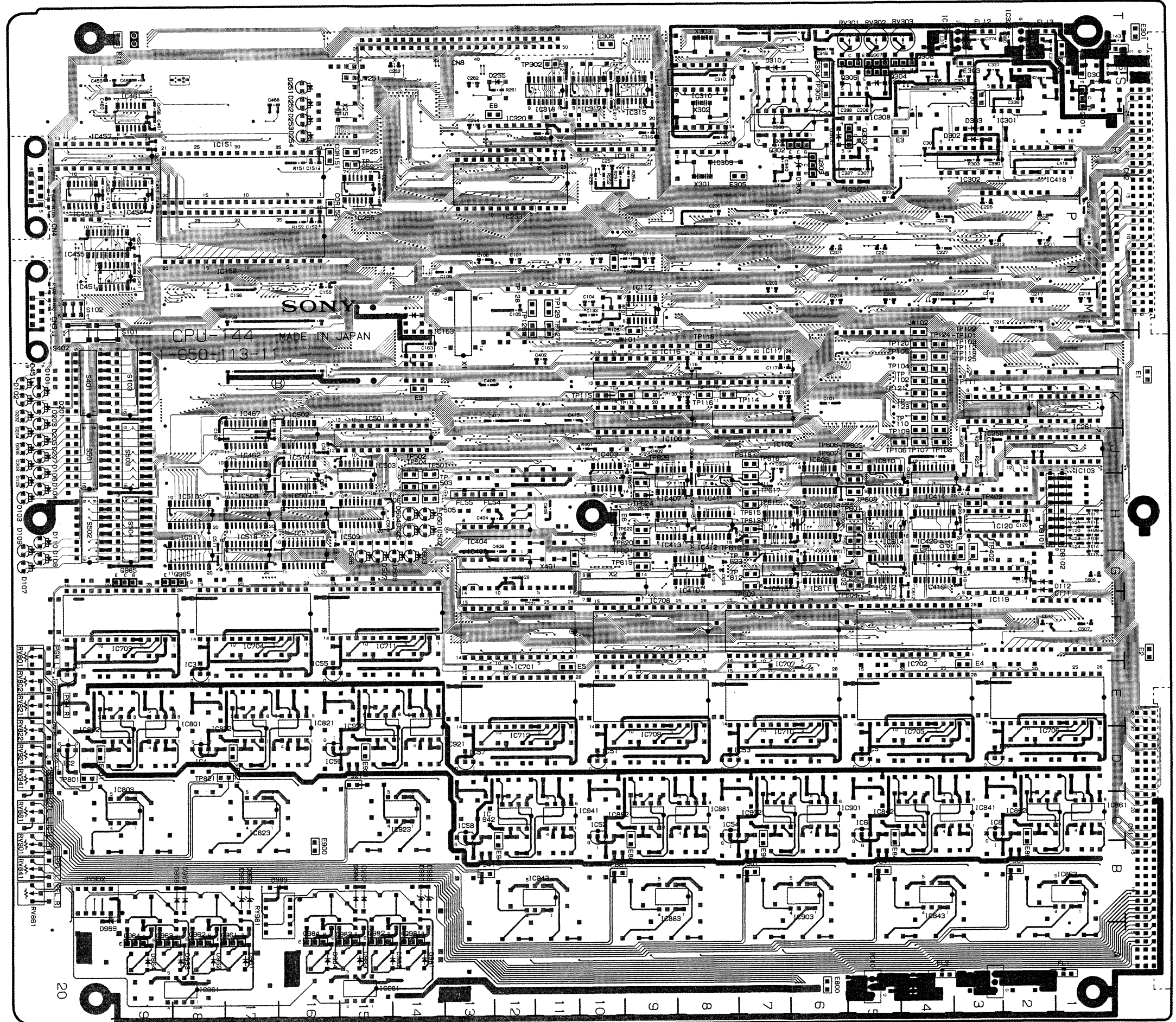
CPU-144
DMX-B4016 PROCESSOR

B (Soldering) Side

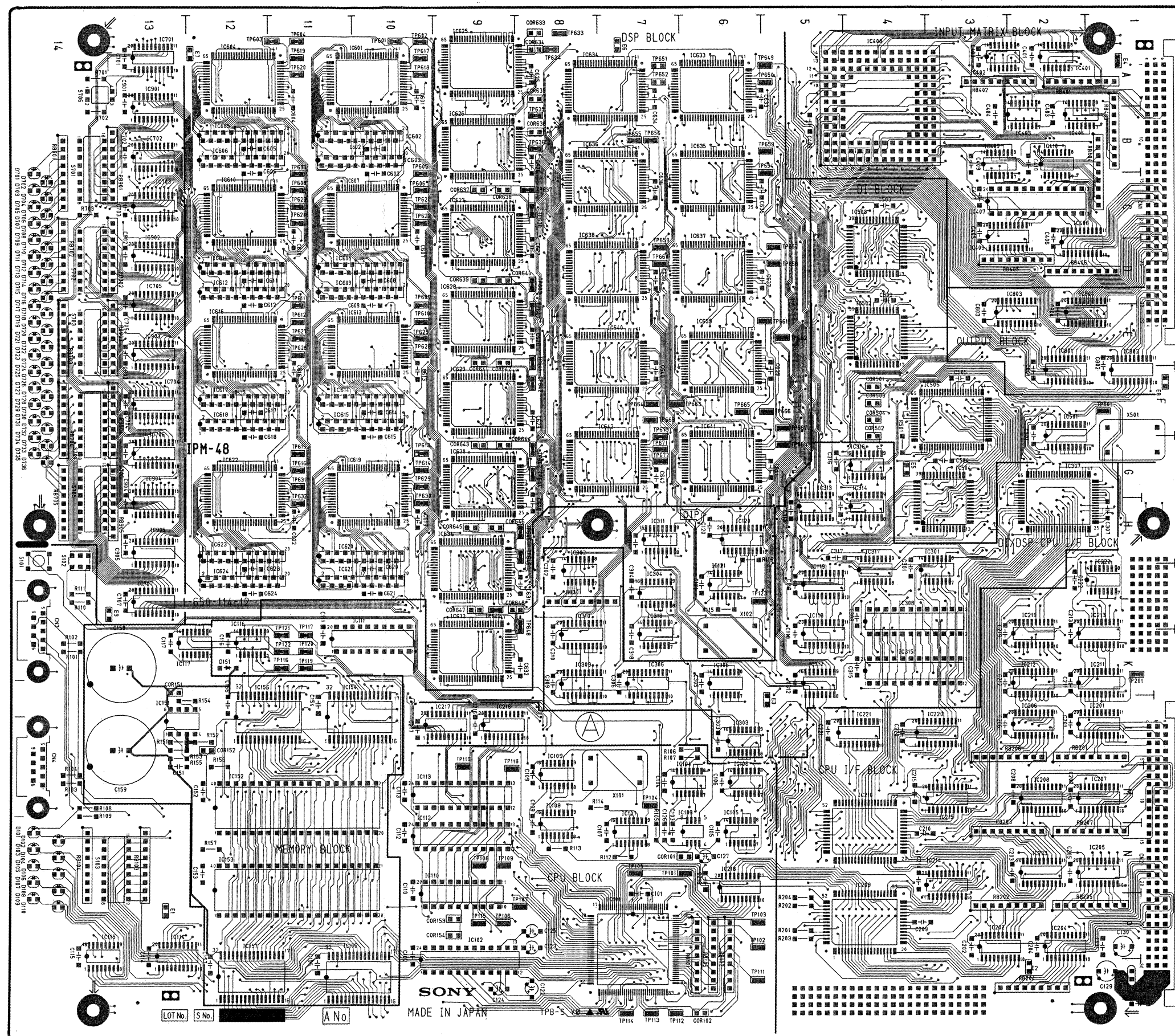
[illegible]

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Q617	TP105	L-4
Q701	TP106	L-4
Q702	TP107	L-4
Q703	TP108	L-4
Q704	TP109	L-4
Q705	TP110	L-4
Q706	TP111	L-4
Q707	TP112	L-4
Q708	TP113	L-4
Q709	TP114	L-4
Q710	TP115	L-4
Q711	TP116	L-4
Q712	TP117	L-4
Q801	TP118	L-4
Q802	TP119	L-4
Q803	TP120	L-4
Q821	TP121	L-4
Q822	TP122	L-4
Q823	TP123	L-4
Q841	TP124	L-4
Q842	TP125	L-4
Q843	TP126	L-4
Q861	TP127	L-4
Q862	TP128	L-4
Q863	TP129	L-4
Q881	TP130	L-4
Q882	TP131	L-4
Q883	TP132	L-4
Q901	TP133	L-4
Q902	TP134	L-4
Q903	TP135	L-4
Q921	TP136	L-4
Q922	TP137	L-4
Q923	TP138	L-4
Q941	TP139	L-4
Q942	TP140	L-4
Q961	TP141	L-4
Q981	TP142	L-4
Q301	RV302	T-5
Q302	RV303	T-5
Q303	RV304	T-5
Q305	RV305	T-5
Q306	RV306	T-5
Q307	RV307	T-5
Q308	RV308	T-5
Q961	RV309	T-5
Q962	RV310	T-5
Q963	RV311	T-5
Q964	RV312	T-5
Q981	RV313	T-5
Q982	RV314	T-5
Q983	RV315	T-5
Q984	RV316	T-5
Q985	RV317	T-5
RV301	RV962	B-20
RV302	RV961	B-20
RV303	S101	M-80
RV304	S102	M-80
RV305	S103	M-80
RV306	S501	K-19
RV307	S502	K-19
RV308	S503	K-19
RV309	S504	K-19
TP101	TP101	L-4
TP102	TP102	L-4
TP103	TP103	L-4
TP104	TP104	L-4
TP105	TP105	L-4
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TP131	TP131	L-4
TP132	TP132	L-4
TP133	TP133	L-4
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TP169	TP169	L-4
TP		

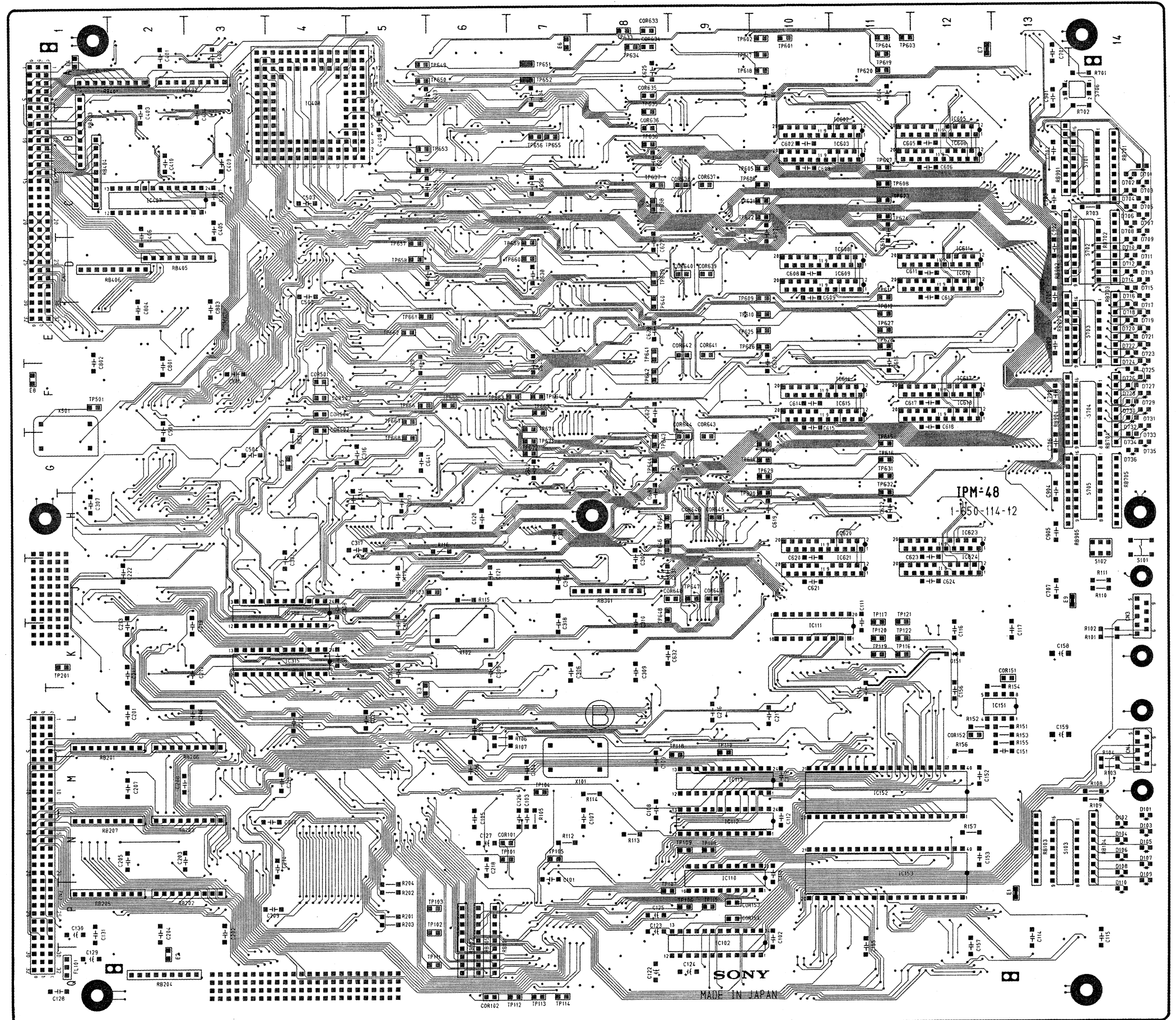
* : B (Soldering) Side mount



A (Component) Side

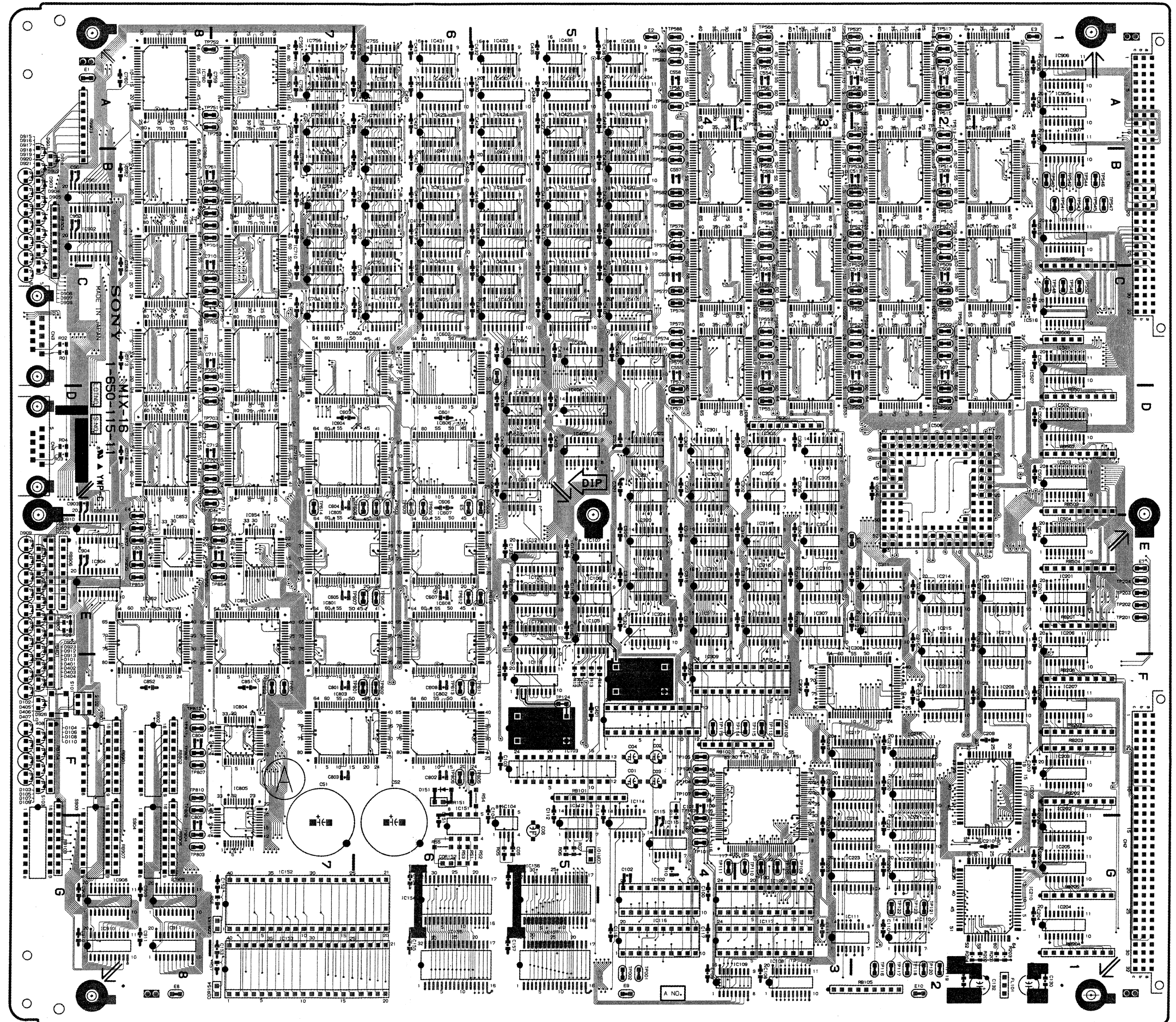


B (Soldering) Side

[illegible]

A (Component) Side

P5588	A-41
P5589	A-41
P5590	A-41
P5591	C-61
P5592	C-61
P5593	D-61
P5594	D-61
P5595	D-61
P5596	D-61
P5597	D-61
P5598	D-61
P5599	D-61
P5600	D-61
P5601	D-61
P5602	D-61
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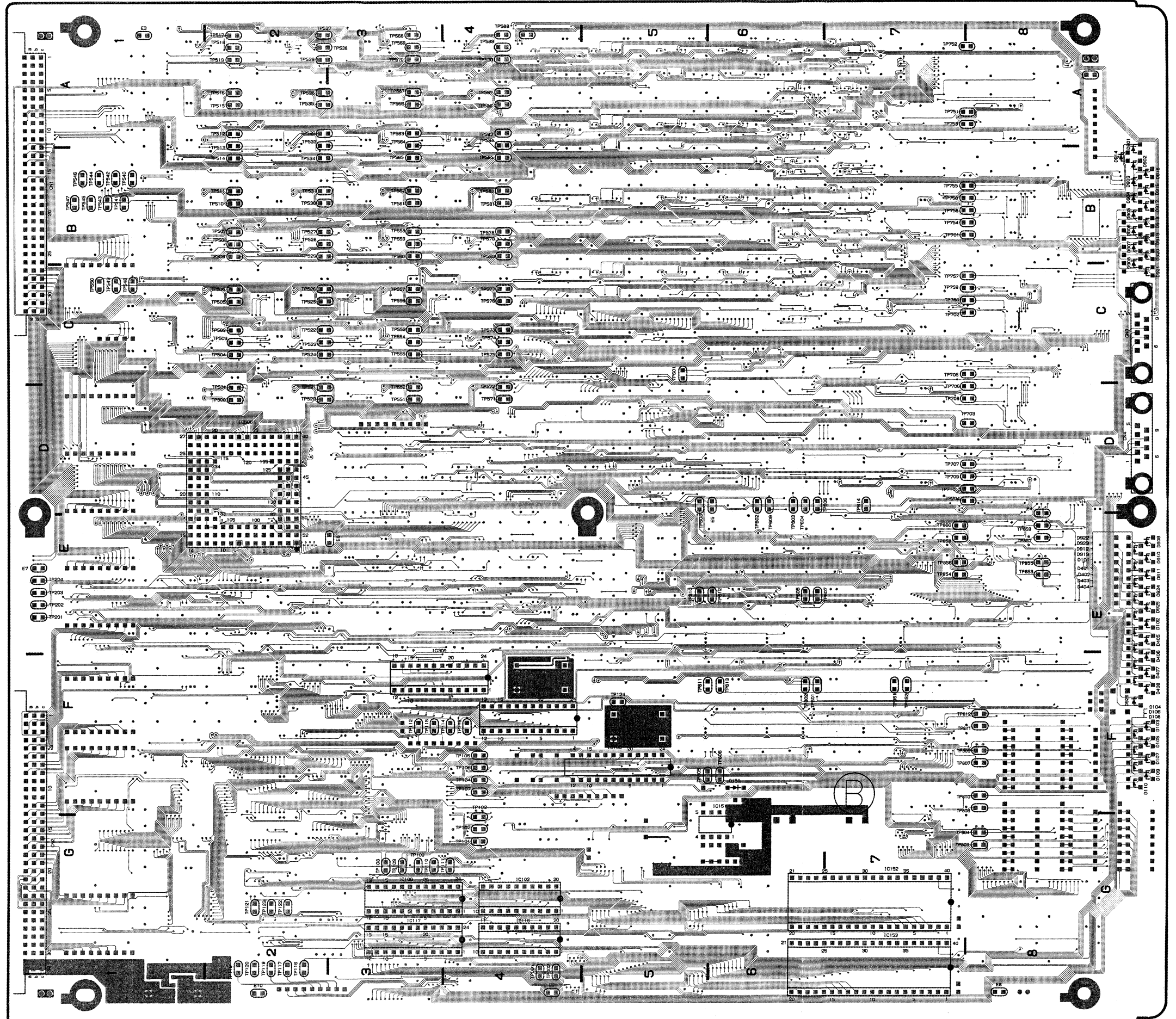


MIX-16

B (Soldering) Side

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DMX-B4016 PROCESSOR

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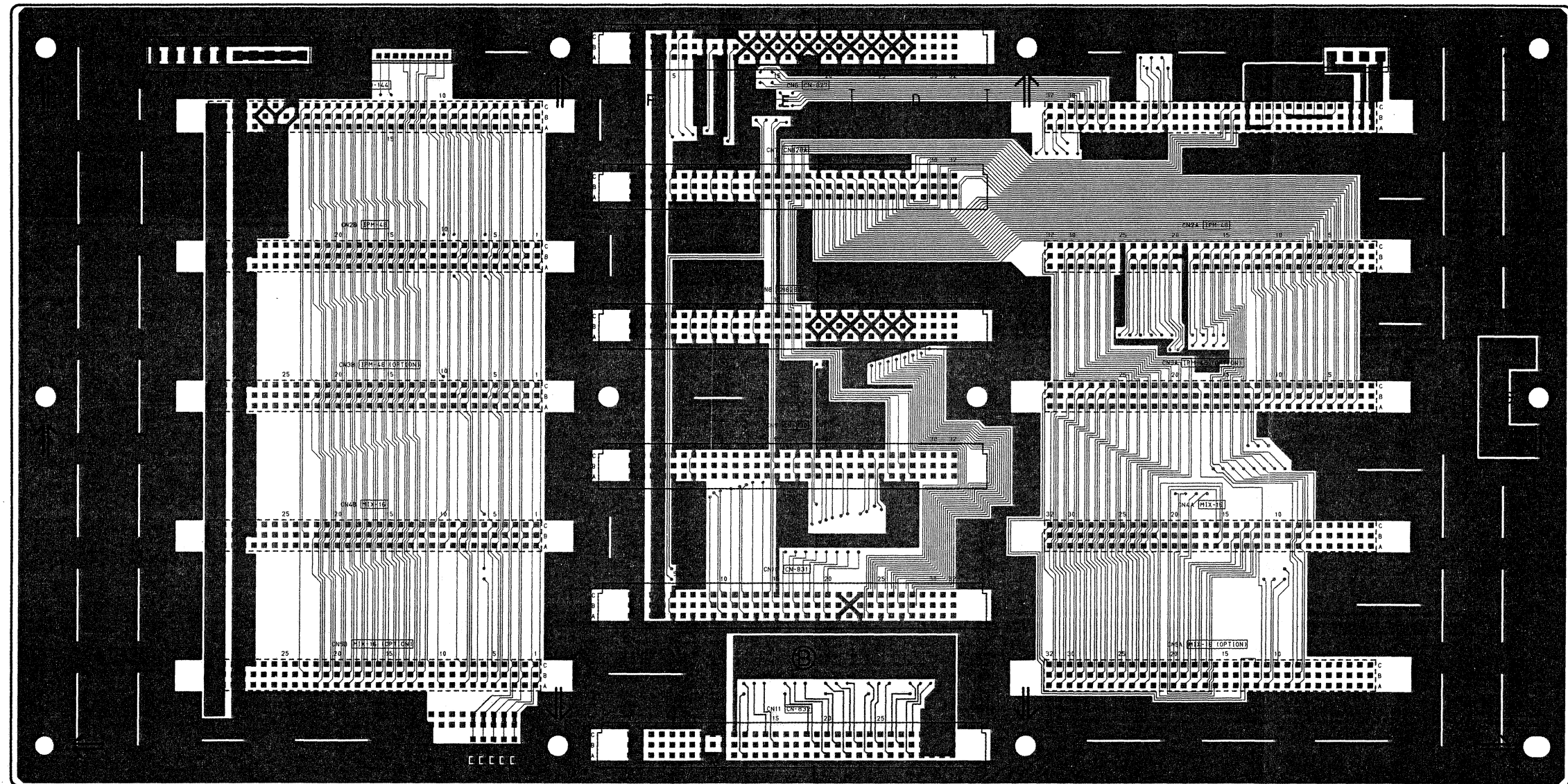
A (Component) Side

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MB-480

B (Soldering) Side



1-650-112-11

MB-480 BOARD
1-650-112-11

C1	*E-1
C2	*E-2
C3	*E-3
C4	*E-4
C5	*E-5
C6	*E-6
C7	*E-7
C8	*E-8
C9	*E-9
C10	*E-10
C11	*E-11
C12	*E-12
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C96	*E-96
C97	*E-97
C98	*E-98
C99	*E-99
C100	*E-100

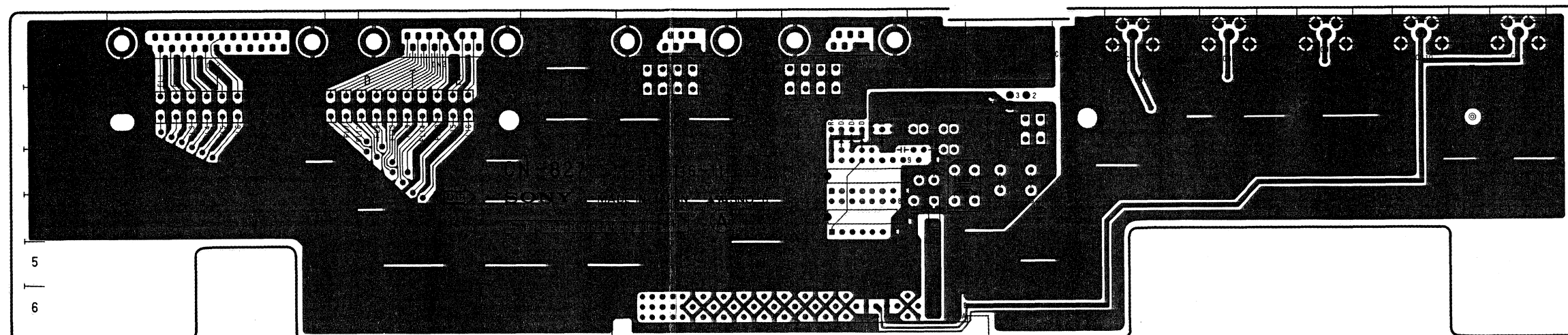
* : B (Soldering) Side mount

CN-827

A (Component) Side

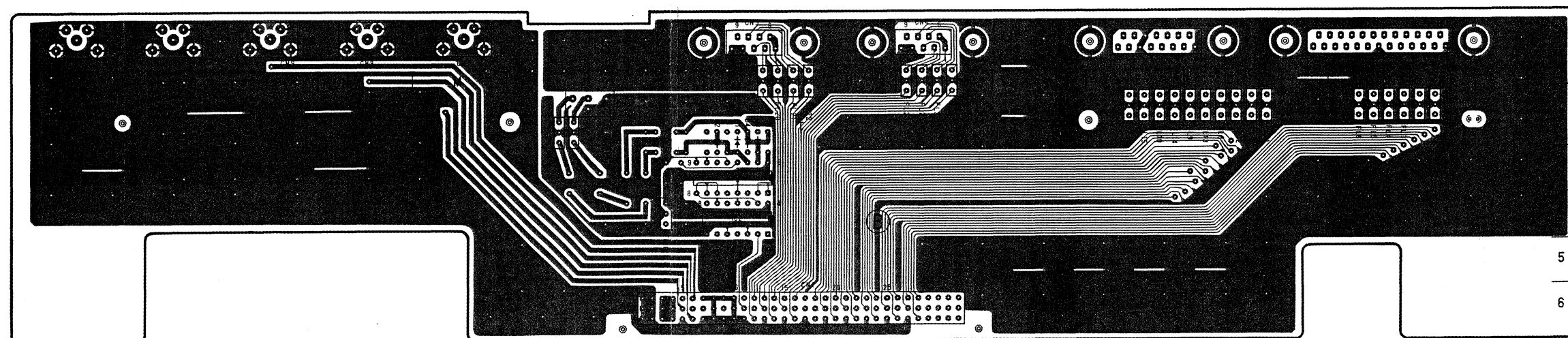
CN-827 BOARD
1-650-116-11

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30	Q31	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52	Q53	Q54	Q55	Q56	Q57	Q58	Q59	Q60	Q61	Q62	Q63	Q64	Q65	Q66	Q67	Q68	Q69	Q70	Q71	Q72	Q73	Q74	Q75	Q76	Q77	Q78	Q79	Q80	Q81	Q82	Q83	Q84	Q85	Q86	Q87	Q88	Q89	Q90	Q91	Q92	Q93	Q94	Q95	Q96	Q97	Q98	Q99	Q100	Q101	Q102	Q103	Q104	Q105	Q106	Q107	Q108	Q109	Q110	Q111	Q112	Q113	Q114	Q115	Q116	Q117	Q118	Q119	Q120	Q121	Q122	Q123	Q124	Q125	Q126	Q127	Q128	Q129	Q130	Q131	Q132	Q133	Q134	Q135	Q136	Q137	Q138	Q139	Q140	Q141	Q142	Q143	Q144	Q145	Q146	Q147	Q148	Q149	Q150	Q151	Q152	Q153	Q154	Q155	Q156	Q157	Q158	Q159	Q160	Q161	Q162	Q163	Q164	Q165	Q166	Q167	Q168	Q169	Q170	Q171	Q172	Q173	Q174	Q175	Q176	Q177	Q178	Q179	Q180	Q181	Q182	Q183	Q184	Q185	Q186	Q187	Q188	Q189	Q190	Q191	Q192	Q193	Q194	Q195	Q196	Q197	Q198	Q199	Q200	Q201	Q202	Q203	Q204	Q205	Q206	Q207	Q208	Q209	Q210	Q211	Q212	Q213	Q214	Q215	Q216	Q217	Q218	Q219	Q220	Q221	Q222	Q223	Q224	Q225	Q226	Q227	Q228	Q229	Q230	Q231	Q232	Q233	Q234	Q235	Q236	Q237	Q238	Q239	Q240	Q241	Q242	Q243	Q244	Q245	Q246	Q247	Q248	Q249	Q250	Q251	Q252	Q253	Q254	Q255	Q256	Q257	Q258	Q259	Q260	Q261	Q262	Q263	Q264	Q265	Q266	Q267	Q268	Q269	Q270	Q271	Q272	Q273	Q274	Q275	Q276	Q277	Q278	Q279	Q280	Q281	Q282	Q283	Q284	Q285	Q286	Q287	Q288	Q289	Q290	Q291	Q292	Q293	Q294	Q295	Q296	Q297	Q298	Q299	Q300	Q301	Q302	Q303	Q304	Q305	Q306	Q307	Q308	Q309	Q310	Q311	Q312	Q313	Q314	Q315	Q316	Q317	Q318	Q319	Q320	Q321	Q322	Q323	Q324	Q325	Q326	Q327	Q328	Q329	Q330	Q331	Q332	Q333	Q334	Q335	Q336	Q337	Q338	Q339	Q340	Q341	Q342	Q343	Q344	Q345	Q346	Q347	Q348	Q349	Q350	Q351	Q352	Q353	Q354	Q355	Q356	Q357	Q358	Q359	Q360	Q361	Q362	Q363	Q364	Q365	Q366	Q367	Q368	Q369	Q370	Q371	Q372	Q373	Q374	Q375	Q376	Q377	Q378	Q379	Q380	Q381	Q382	Q383	Q384	Q385	Q386	Q387	Q388	Q389	Q390	Q391	Q392	Q393	Q394	Q395	Q396	Q397	Q398	Q399	Q400	Q401	Q402	Q403	Q404	Q405	Q406	Q407	Q408	Q409	Q410	Q411	Q412	Q413	Q414	Q415	Q416	Q417	Q418	Q419	Q420	Q421	Q422	Q423	Q424	Q425	Q426	Q427	Q428	Q429	Q430	Q431	Q432	Q433	Q434	Q435	Q436	Q437	Q438	Q439	Q440	Q441	Q442	Q443	Q444	Q445	Q446	Q447	Q448	Q449	Q450	Q451	Q452	Q453	Q454	Q455	Q456	Q457	Q458	Q459	Q460	Q461	Q462	Q463	Q464	Q465	Q466	Q467	Q468	Q469	Q470	Q471	Q472	Q473	Q474	Q475	Q476	Q477	Q478	Q479	Q480	Q481	Q482	Q483	Q484	Q485	Q486	Q487	Q488	Q489	Q490	Q491	Q492	Q493	Q494	Q495	Q496	Q497	Q498	Q499	Q500	Q501	Q502	Q503	Q504	Q505	Q506	Q507	Q508	Q509	Q510	Q511	Q512	Q513	Q514	Q515	Q516	Q517	Q518	Q519	Q520	Q521	Q522	Q523	Q524	Q525	Q526	Q527	Q528	Q529	Q530	Q531	Q532	Q533	Q534	Q535	Q536	Q537	Q538	Q539	Q540	Q541	Q542	Q543	Q544	Q545	Q546	Q547	Q548	Q549	Q550	Q551	Q552	Q553	Q554	Q555	Q556	Q557	Q558	Q559	Q560	Q561	Q562	Q563	Q564	Q565	Q566	Q567	Q568	Q569	Q570	Q571	Q572	Q573	Q574	Q575	Q576	Q577	Q578	Q579	Q580	Q581	Q582	Q583	Q584	Q585	Q586	Q587	Q588	Q589	Q590	Q591	Q592	Q593	Q594	Q595	Q596	Q597	Q598	Q599	Q600	Q601	Q602	Q603	Q604	Q605	Q606	Q607	Q608	Q609	Q610	Q611	Q612	Q613	Q614	Q615	Q616	Q617	Q618	Q619	Q620	Q621	Q622	Q623	Q624	Q625	Q626	Q627	Q628	Q629	Q630	Q631	Q632	Q633	Q634	Q635	Q636	Q637	Q638	Q639	Q640	Q641	Q642	Q643	Q644	Q645	Q646	Q647	Q648	Q649	Q650	Q651	Q652	Q653	Q654	Q655	Q656	Q657	Q658	Q659	Q660	Q661	Q662	Q663	Q664	Q665	Q666	Q667	Q668	Q669	Q670	Q671	Q672	Q673	Q674	Q675	Q676	Q677	Q678	Q679	Q680	Q681	Q682	Q683	Q684	Q685	Q686	Q687	Q688	Q689	Q690	Q691	Q692	Q693	Q694	Q695	Q696	Q697	Q698	Q699	Q700	Q701	Q702	Q703	Q704	Q705	Q706	Q707	Q708	Q709	Q710	Q711	Q712	Q713	Q714	Q715	Q716	Q717	Q718	Q719	Q720	Q721	Q722	Q723	Q724	Q725	Q726	Q727	Q728	Q729	Q730	Q731	Q732	Q733	Q734	Q735	Q736	Q737	Q738	Q739	Q740	Q741	Q742	Q743	Q744	Q745	Q746	Q747	Q748	Q749	Q750	Q751	Q752	Q753	Q754	Q755	Q756	Q757	Q758	Q759	Q760	Q761	Q762	Q763	Q764	Q765	Q766	Q767	Q768	Q769	Q770	Q771	Q772	Q773	Q774	Q775	Q776	Q777	Q778	Q779	Q780	Q781	Q782	Q783	Q784	Q785	Q786	Q787	Q788	Q789	Q790	Q791	Q792	Q793	Q794	Q795	Q796	Q797	Q798	Q799	Q800	Q801	Q802	Q803	Q804	Q805	Q806	Q807	Q808	Q809	Q810	Q811	Q812	Q813	Q814	Q815	Q816	Q817	Q818	Q819	Q820	Q821	Q822	Q823	Q824	Q825	Q826	Q827	Q828	Q829	Q830	Q831	Q832	Q833	Q834	Q835	Q836	Q837	Q838	Q839	Q840	Q841	Q842	Q843	Q844	Q845	Q846	Q847	Q848	Q849	Q850	Q851	Q852	Q853	Q854	Q855	Q856	Q857	Q858	Q859	Q860	Q861	Q862	Q863	Q864	Q865	Q866	Q867	Q868	Q869	Q870	Q871	Q872	Q873	Q874	Q875	Q876	Q877	Q878	Q879	Q880	Q881	Q882	Q883	Q884	Q885	Q886	Q887	Q888	Q889	Q890	Q891	Q892	Q893	Q894	Q895	Q896	Q897	Q898	Q899	Q900	Q901	Q902	Q903	Q904	Q905	Q906	Q907	Q908	Q909	Q910	Q911	Q912	Q913	Q914	Q915	Q916	Q917	Q918	Q919	Q920	Q921	Q922	Q923	Q924	Q925	Q926	Q927	Q928	Q929	Q930	Q931	Q932	Q933	Q934	Q935	Q936	Q937	Q938	Q939	Q940	Q941	Q942	Q943	Q944	Q945	Q946	Q947	Q948	Q949	Q950	Q951	Q952	Q953	Q954	Q955	Q956	Q957	Q958	Q959	Q960	Q961	Q962	Q963	Q964	Q965	Q966	Q967	Q968	Q969	Q970	Q971	Q972	Q973	Q974	Q975	Q976	Q977	Q978	Q979	Q980	Q981	Q982	Q983	Q984	Q985	Q986	Q987	Q988	Q989	Q990	Q991	Q992	Q993	Q994	Q995	Q996	Q997	Q998	Q999
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1-650-116-11

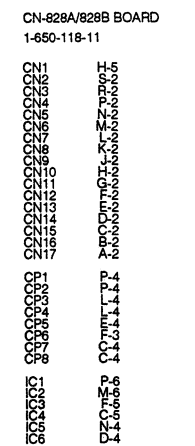
B (Soldering) Side



1-650-116-11

CN-828A/828B
DMX-B4016 PROCESSOR

A (Component) Side

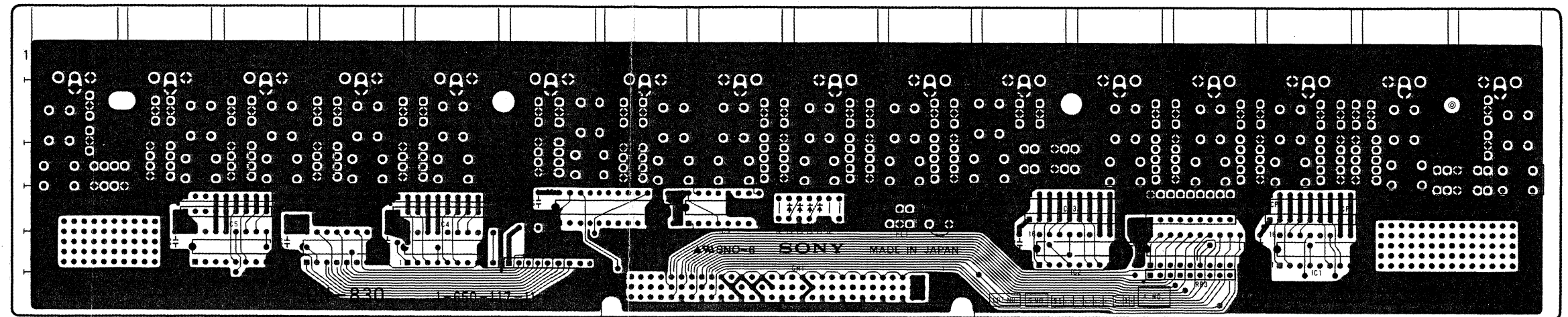


1-650-118-11

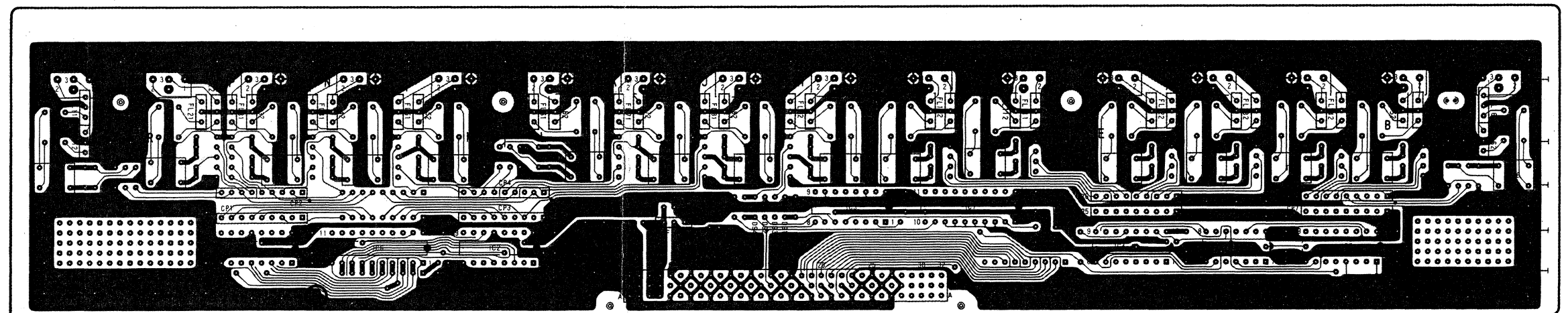
1-650-118-11

A (Component) Side

CN-830 BOARD
1-650-117-11
 CN1 J-5
 CN2 J-5
 CN3 J-5
 CN4 J-5
 CN5 J-5
 CN6 M-2
 CN7 J-5
 CN8 J-5
 CN9 J-5
 CN10 J-5
 CN11 J-5
 CN12 J-5
 CN13 J-5
 CN14 J-5
 CN15 J-5
 CN16 J-5
 CN17 A-2
 CP1 P-4
 CP2 P-4
 CP3 P-4
 CP4 P-4
 CP5 P-4
 CP6 P-4
 CP7 P-4
 CP8 P-4
 D91 J-4
 D92 J-4
 D93 J-4
 D94 J-4
 IC1 P-6
 IC2 M-6
 IC3 J-4
 IC4 C-4
 IC5 C-4
 IC6 M-4
 IC7 G-4
 IC8 D-4



B (Soldering) Side

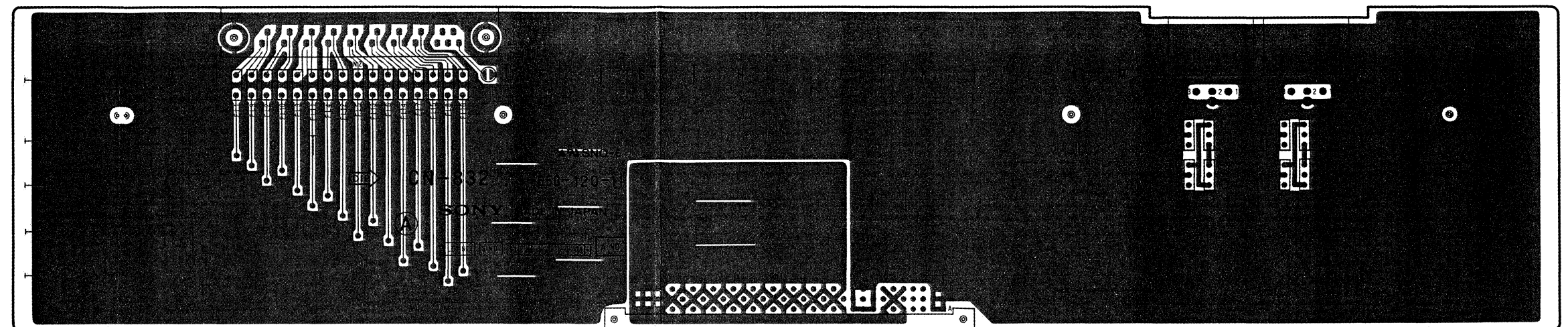


3-50

CN-832A/832B

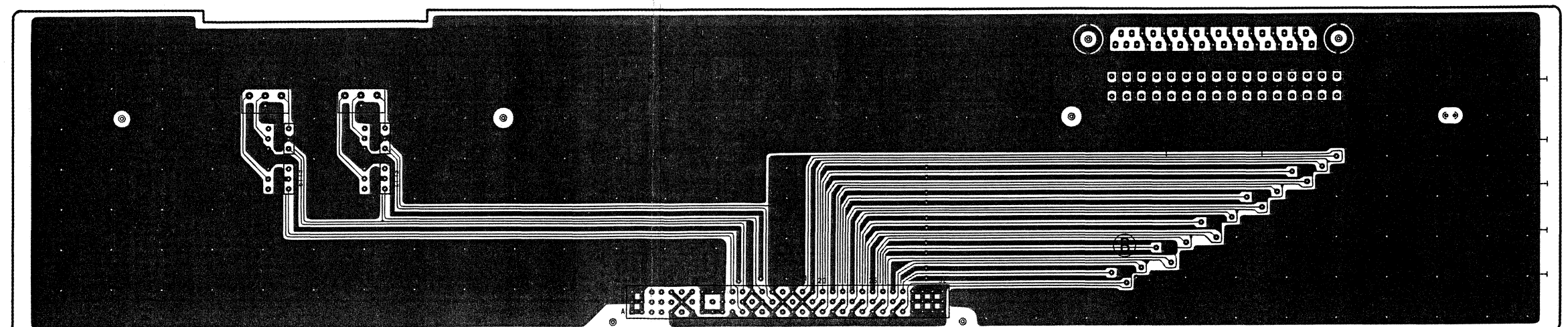
A (Component) Side

CN-832A/832B BOARD
1-650-120-11
1-650-120-11
1-650-120-11



1-650-120-11

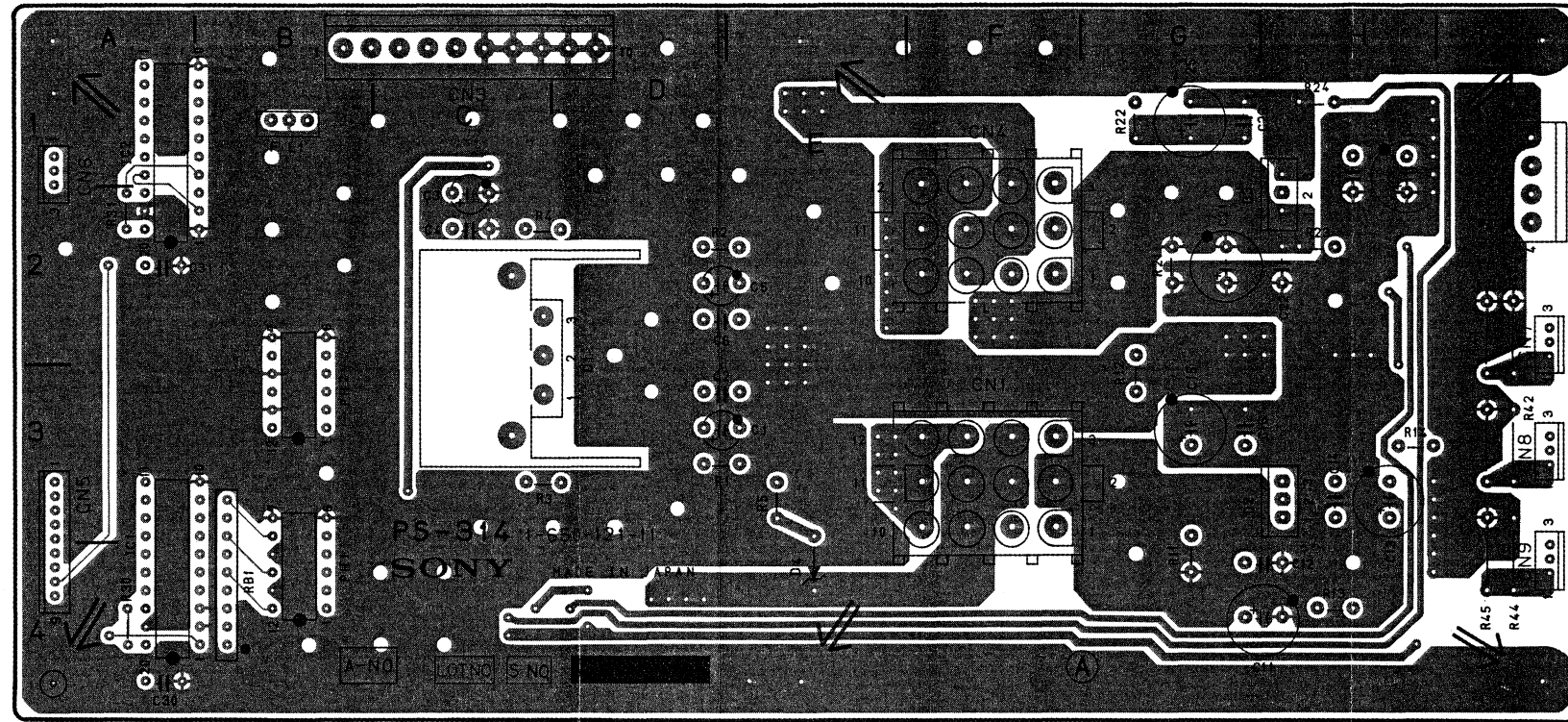
B (Soldering) Side



1-650-120-11

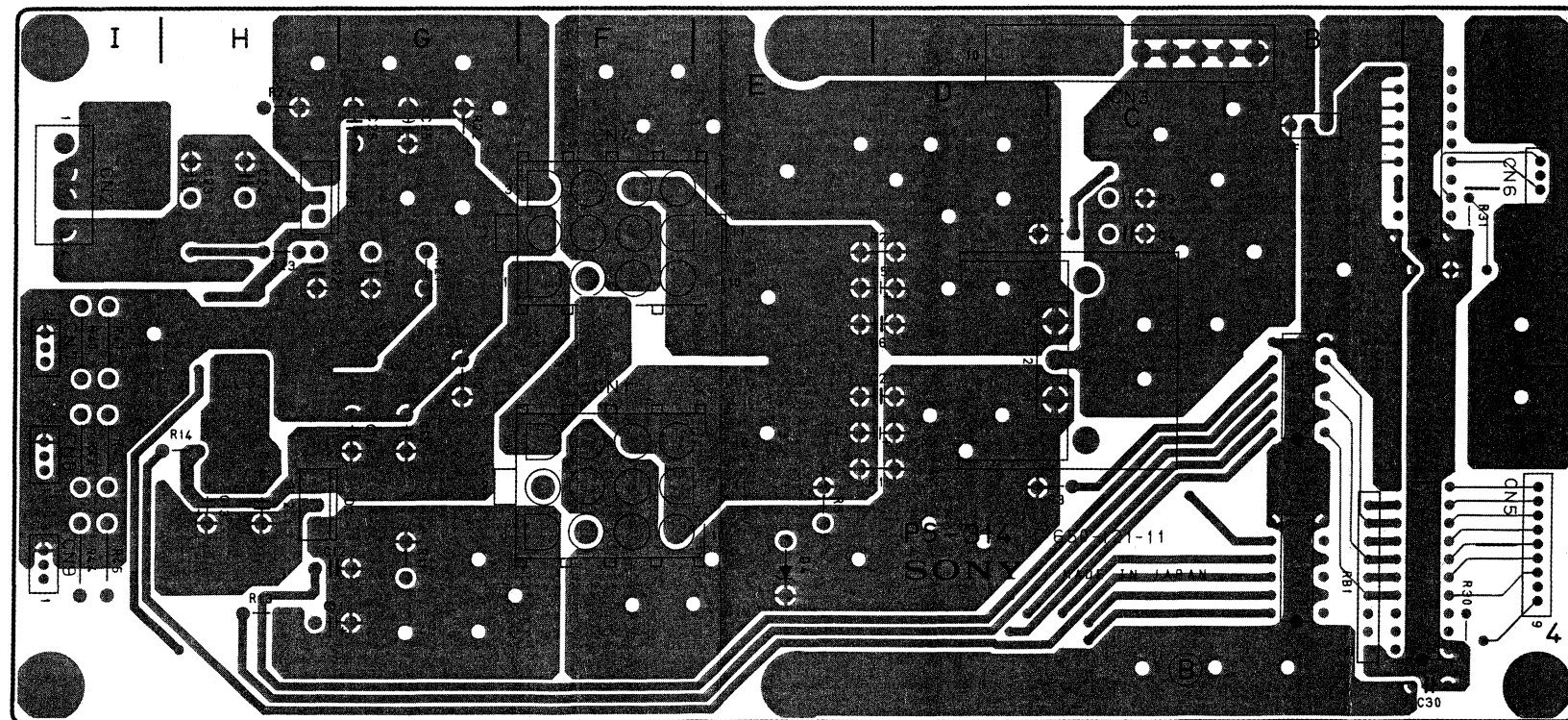
PS-314

A (Component) Side



1-650-121-11

B (Soldering) Side



1-650-121-11

PS-314
DMX-B4016 PROCESSOR

PS-314
DMX-B4016 PROCESSOR

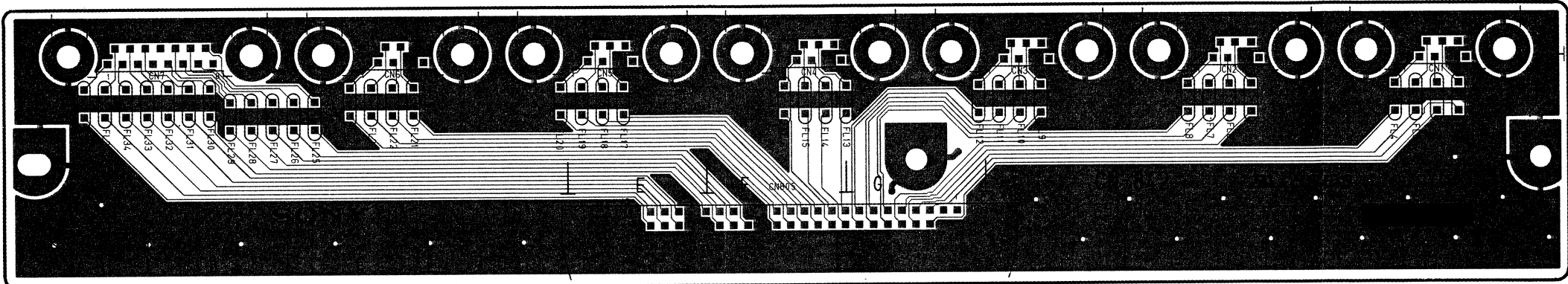
PS-314 BOARD
1-650-121-11

CN1	F-3
CN2	I-2
CN3	C-1
CN4	F-1
CN5	A-3
CN6	A-1
CN7	I-2
CN8	I-3
CN9	I-4
D1	D-3
D2	G-3
D3	G-2
D4	E-4
IC1	A-4
IC2	A-1
PH1	B-4
PH2	B-3

3-4. OPTIONAL ACCESSORIES

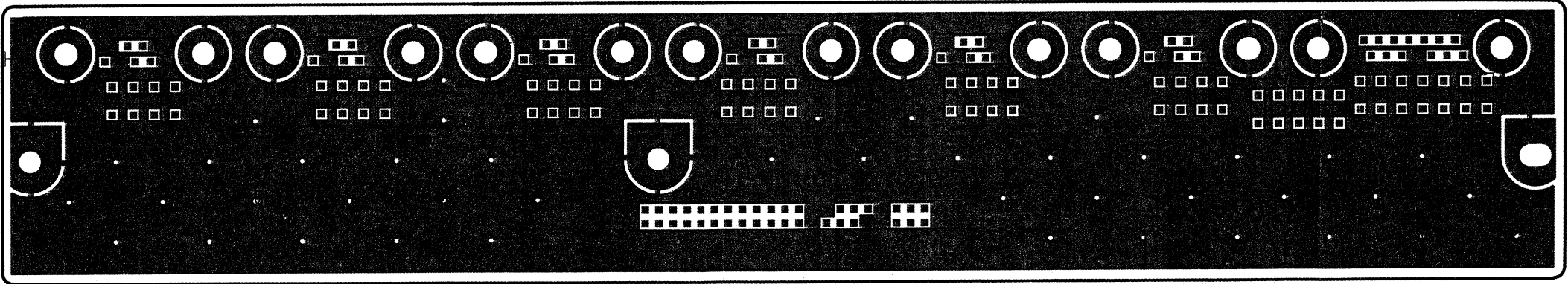
DMBK-4001
CN-842

A (Component) Side



1-651-884-11

B (Soldering) Side



1-651-884-11

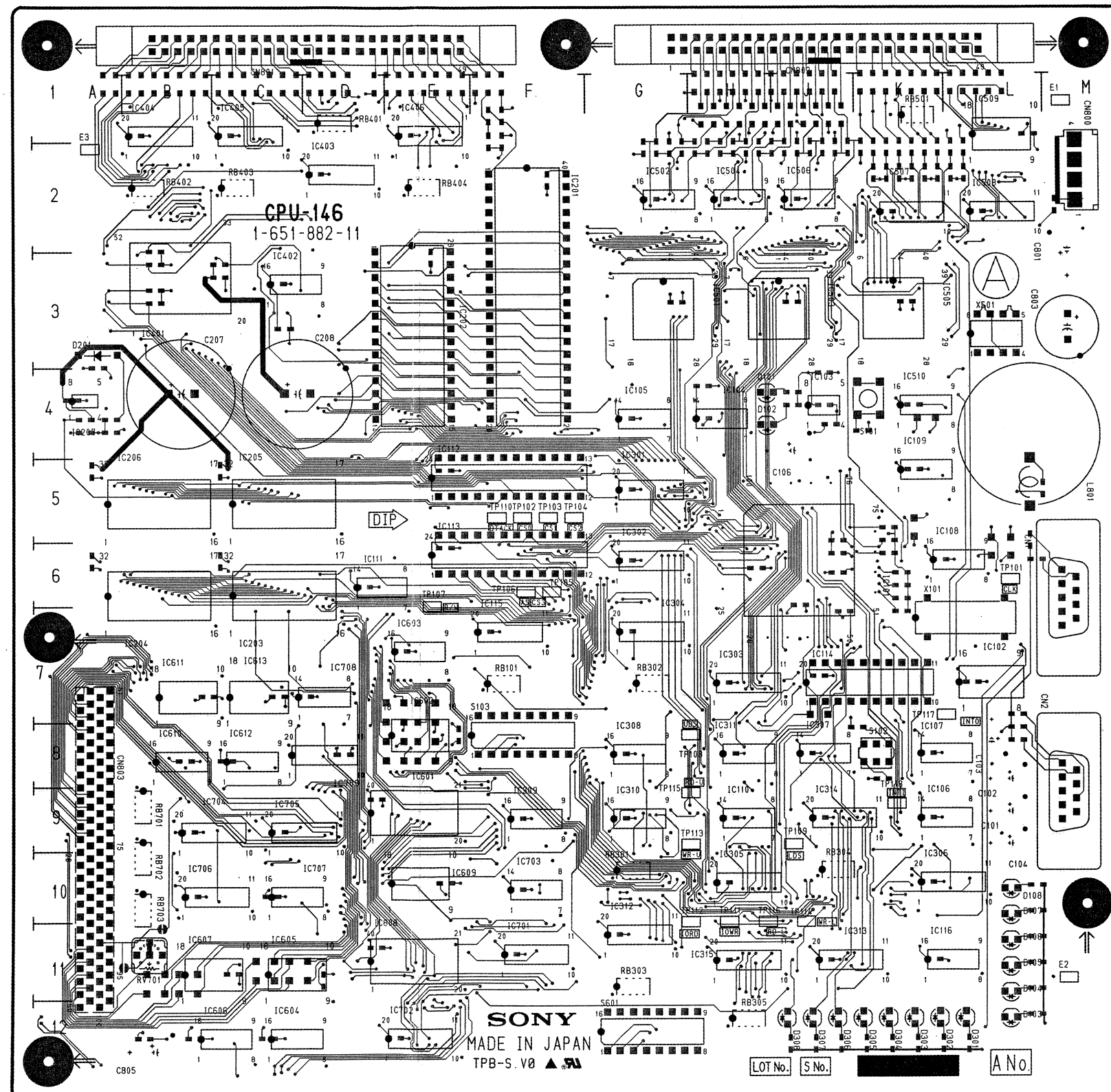
CPU-146
DMBK-4001 (OPTION)

A (Component) Side

E1	K101	M-1
E03	K102	A-1
	K103	K-6
	K104	JL-4
	K105	6-4
	K106	6-4
	K107	6-4
	K108	6-4
	K109	6-4
	K110	6-4
	K111	6-4
	K112	6-4
	K113	6-4
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	K116	6-4
	K201	6-4
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TP101	K-6
TP102	L-3
TP103	
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TP106	
TP107	
TP108	
TP109	
TP110	
TP111	
TP112	
TP113	
TP114	
TP115	
TP116	
TP117	
TP118	
X101	K-6
X501	L-3

* : B (Soldering) Side mount

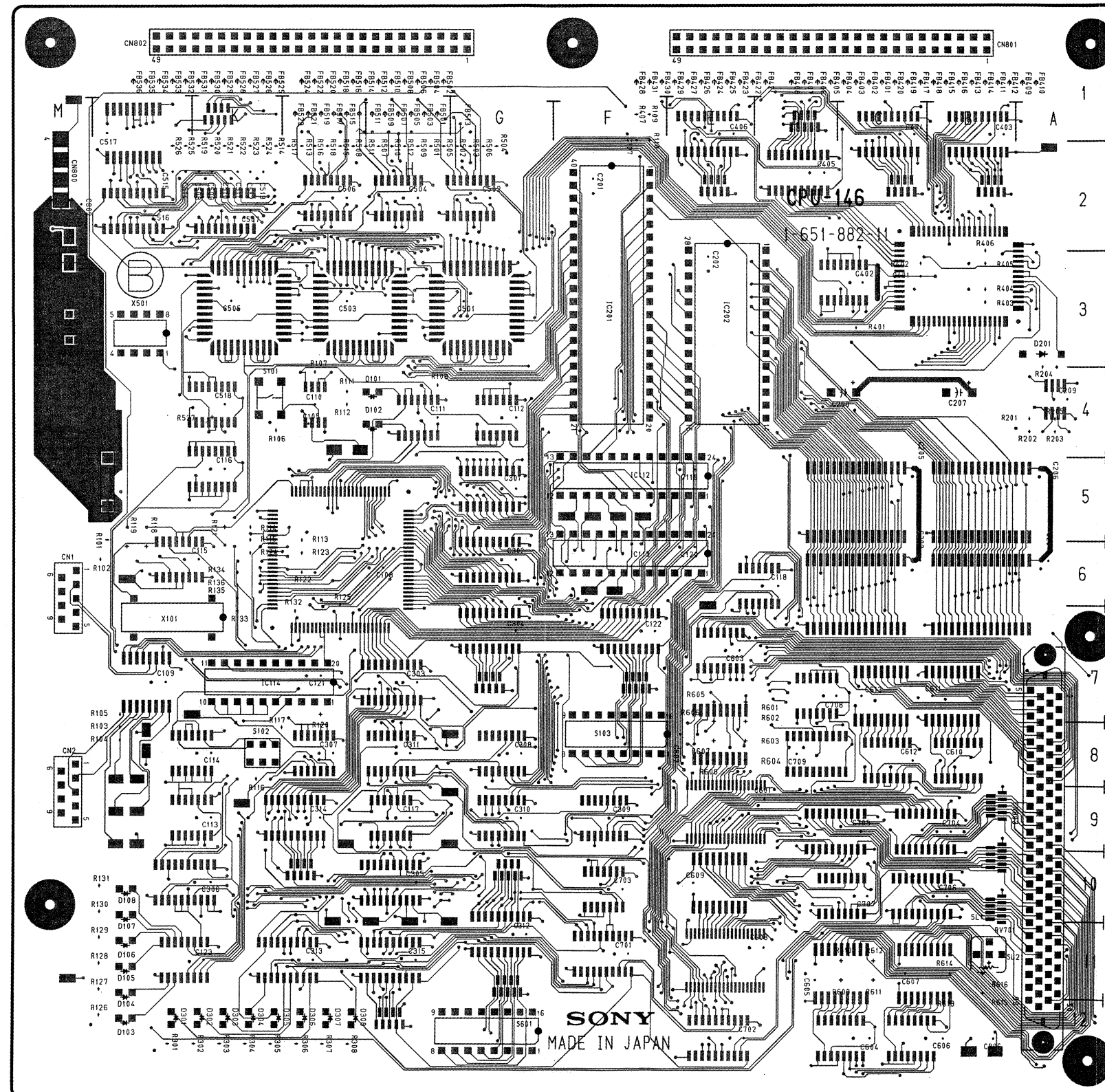


1-651-882-11

B (Soldering) Side

CPU-146
DMBK-4001 (OPTION)

CPU-146
DMBK-4001 (OPTION)



1-651-882-11

CPU-146 BOARD
1-651-882-11

CN1	L-6	TP101	L-6
CN2	M-7	TP102	L-6
CN800	M-1	TP103	L-6
CN801	C-1	TP104	L-6
CN802	J-1	TP105	L-6
CN803	*A-9	TP106	L-6
		TP107	L-6
D101	H-4	TP108	L-6
D102	H-4	TP109	L-6
D103	L-12	TP110	L-6
D104	L-11	TP111	L-6
D105	L-11	TP112	L-6
D106	L-11	TP113	L-6
D107	L-10	TP114	L-6
D108	L-10	TP115	L-6
D201	A-3	TP116	L-6
D202	L-12	TP117	L-6
D302	L-12	TP118	L-6
D303	L-12		
D304	L-12	X101	L-6
D305	L-12	X501	L-3
D306	L-12		
D307	L-12		
D308	L-12		
E1	M-1		
E2	M-11		
E3	A-1		
IC101	K-6		
IC102	L-7		
IC103	L-4		
IC104	L-4		
IC105	L-4		
IC106	L-4		
IC107	L-4		
IC108	L-4		
IC109	L-4		
IC110	L-4		
IC111	L-4		
IC112	L-4		
IC113	L-4		
IC114	L-4		
IC115	L-4		
IC116	L-4		
IC201	L-4		
IC202	L-4		
IC203	L-4		
IC204	L-4		
IC205	L-4		
IC206	L-4		
IC207	L-4		
IC301	L-4		
IC302	L-4		
IC303	L-4		
IC304	L-4		
IC305	L-4		
IC306	L-4		
IC307	L-4		
IC308	L-4		
IC309	L-4		
IC310	L-4		
IC311	L-4		
IC312	L-4		
IC313	L-4		
IC314	L-4		
IC315	L-4		
IC401	L-4		
IC402	L-4		
IC403	L-4		
IC404	L-4		
IC405	L-4		
IC406	L-4		
IC501	L-4		
IC502	L-4		
IC503	L-4		
IC504	L-4		
IC505	L-4		
IC506	L-4		
IC507	L-4		
IC508	L-4		
IC509	L-4		
IC510	L-4		
IC601	L-4		
IC602	L-4		
IC603	L-4		
IC604	L-4		
IC605	L-4		
IC606	L-4		
IC607	L-4		
IC608	L-4		
IC609	L-4		
IC610	L-4		
IC611	L-4		
IC612	L-4		
IC613	L-4		
IC701	L-4		
IC702	L-4		
IC703	L-4		
IC704	L-4		
IC705	L-4		
IC706	L-4		
IC707	L-4		
IC708	L-4		
IC709	L-4		
IC101	L-4		
IC102	L-4		
IC103	L-4		
IC104	L-4		
IC105	L-4		
IC106	L-4		
IC107	L-4		
IC108	L-4		
IC109	L-4		
IC110	L-4		
IC111	L-4		
IC112	L-4		
IC113	L-4		
IC114	L-4		
IC115	L-4		
IC116	L-4		
IC201	L-4		
IC202	L-4		
IC203	L-4		
IC204	L-4		
IC205	L-4		
IC206	L-4		
IC207	L-4		
IC208	L-4		
IC209	L-4		
IC210	L-4		
IC211	L-4		
IC212	L-4		
IC213	L-4		

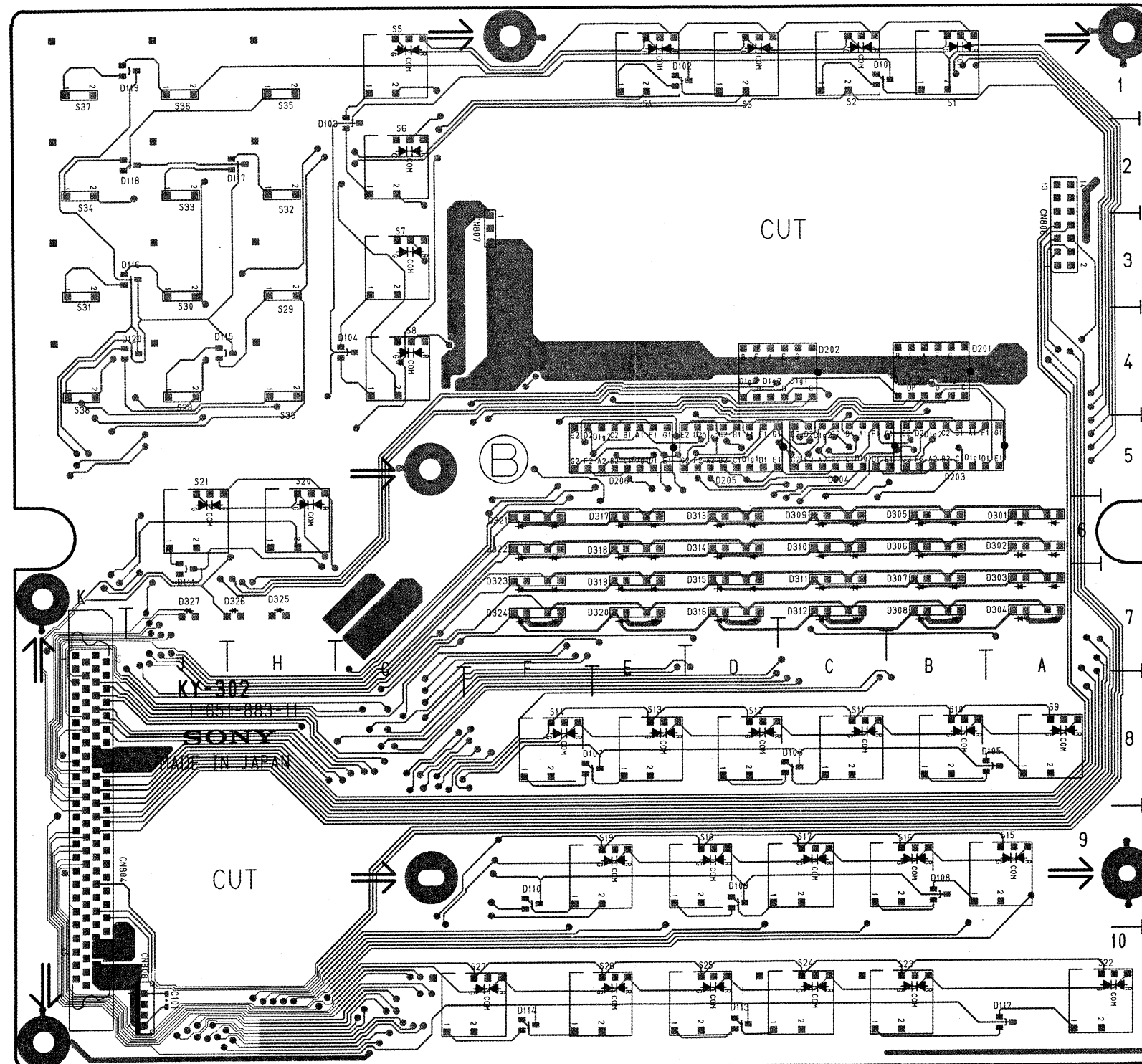
* : B (Soldering) Side mount

KY-302
DMBK-4001 (OPTION)

KY-302
DMBK-4001 (OPTION)

KY-302

B (Soldering) Side



1-651-883-11

KY-302 BOARD
1-651-883-11

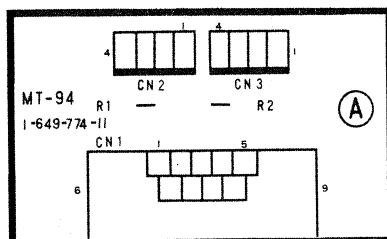
CN804 *K-9
 CN806 A-3
 CN807 F-3
 CN808 J-10
 D101 *C-1
 D102 *C-1
 D103 *C-1
 D104 *C-1
 D105 *C-1
 D106 *C-1
 D107 *C-1
 D108 *C-1
 D109 *C-1
 D110 *C-1
 D111 *C-1
 D112 *C-1
 D113 *C-1
 D114 *C-1
 D115 *C-1
 D116 *C-1
 D117 *C-1
 D118 *C-1
 D119 *C-1
 D120 *C-1
 D201 *C-1
 D202 *C-1
 D203 *C-1
 D204 *C-1
 D205 *C-1
 D206 *C-1
 D207 *C-1
 D208 *C-1
 D209 *C-1
 D210 *C-1
 D211 *C-1
 D212 *C-1
 D213 *C-1
 D214 *C-1
 D215 *C-1
 D216 *C-1
 D217 *C-1
 D218 *C-1
 D219 *C-1
 D220 *C-1
 D301 *C-1
 D302 *C-1
 D303 *C-1
 D304 *C-1
 D305 *C-1
 D306 *C-1
 D307 *C-1
 D308 *C-1
 D309 *C-1
 D310 *C-1
 D311 *C-1
 D312 *C-1
 D313 *C-1
 D314 *C-1
 D315 *C-1
 D316 *C-1
 D317 *C-1
 D318 *C-1
 D319 *C-1
 D320 *C-1
 D321 *C-1
 D322 *C-1
 D323 *C-1
 D324 *C-1
 D325 *C-1
 D326 *C-1
 D327 *C-1
 S1 *C-1
 S2 *C-1
 S3 *C-1
 S4 *C-1
 S5 *C-1
 S6 *C-1
 S7 *C-1
 S8 *C-1
 S9 *C-1
 S10 *C-1
 S11 *C-1
 S12 *C-1
 S13 *C-1
 S14 *C-1
 S15 *C-1
 S16 *C-1
 S17 *C-1
 S18 *C-1
 S19 *C-1
 S20 *C-1
 S21 *C-1
 S22 *C-1
 S23 *C-1
 S24 *C-1
 S25 *C-1
 S26 *C-1
 S27 *C-1
 S28 *C-1
 S29 *C-1
 S30 *C-1
 S31 *C-1
 S32 *C-1
 S33 *C-1
 S34 *C-1
 S35 *C-1
 S36 *C-1
 S37 *C-1

* : B (Soldering) Side mount

DMBK-4003

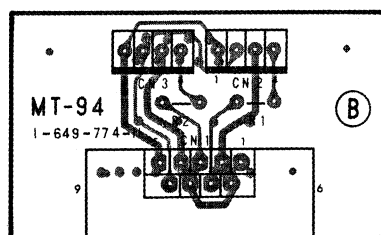
MT-94

A (Component) Side



1-649-774-11

B (Soldering) Side

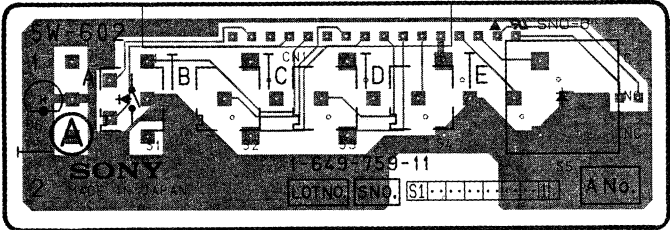


1-649-774-11

DMBK-4012

SW-602

A (Component) Side

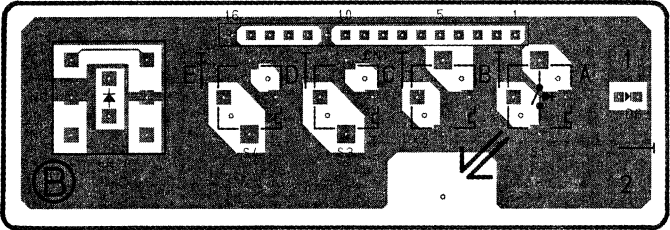


1-649-759-11

SW-602 BOARD
1-649-759-11

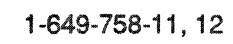
CN1	A-1
D6	A-1
S1	A-1
S2	A-1
S3	A-1
S4	B-1
S5	B-1

B (Soldering) Side



1-649-759-11

A (Component) Side



VR-163
DMBK-4012 (OPTION)

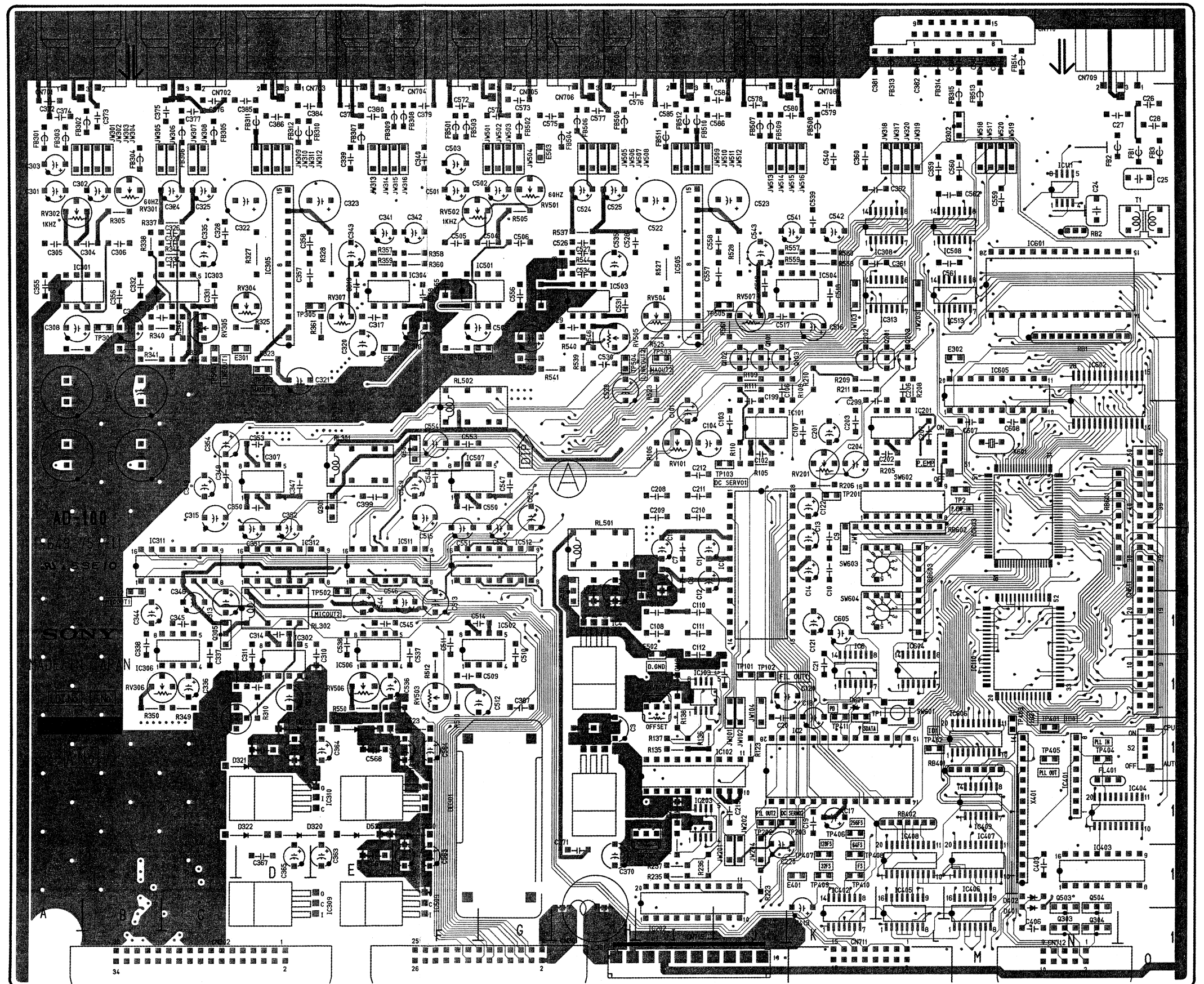
VR-163 BOARD
1-649-758-11, 12

CN3	C-3
CN4	F-3
D1	C-3
D2	C-3
D3	C-3
D4	C-3
D10	A-2
IC1	B-2
IC2	F-2
IC3	G-2
Q1	C-2
Q2	C-2

1-649-758-11, 12

AD-100
DMBK-4012 (OPTION)

A (Component) Side

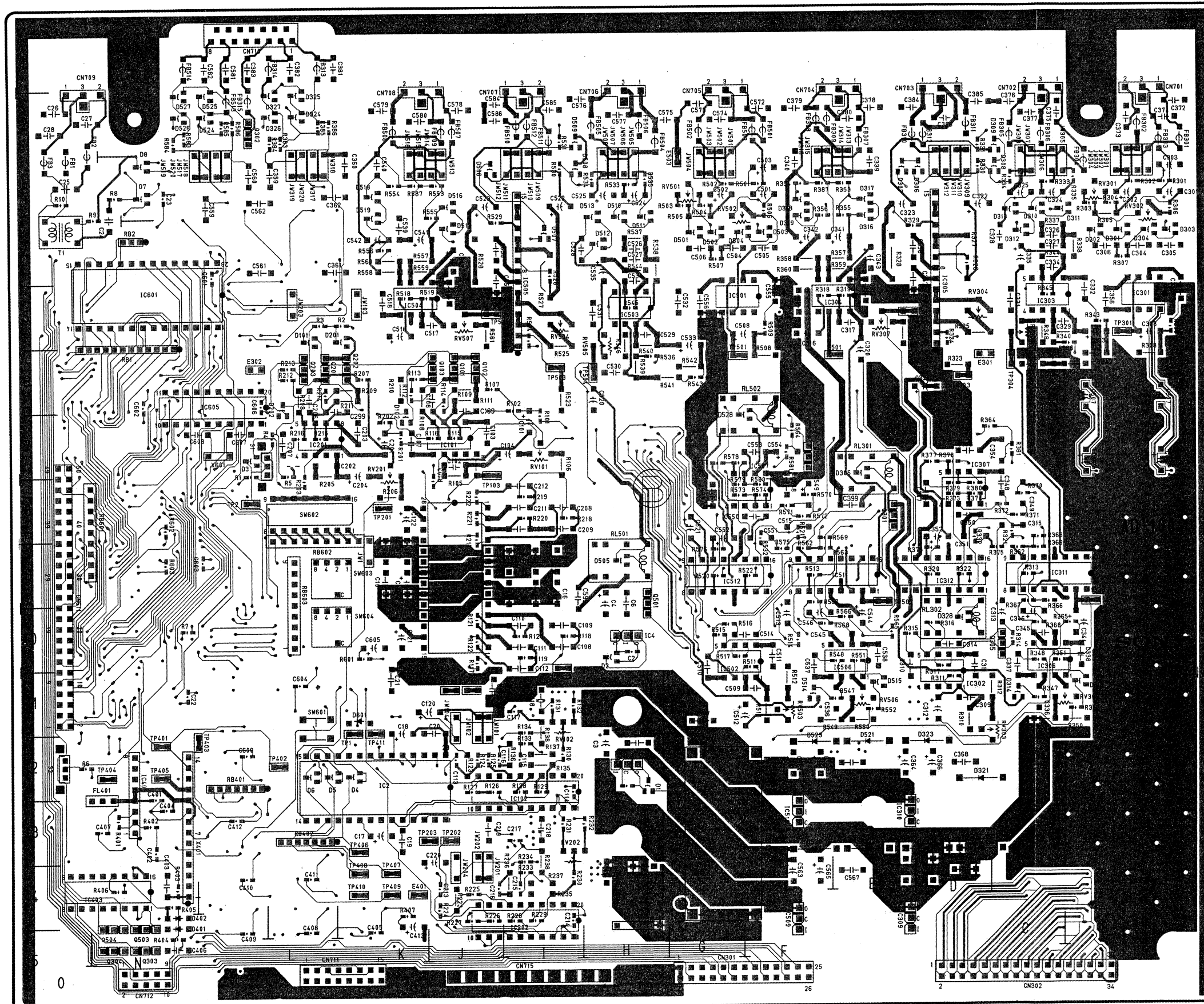


3-64 (a)

AD-100
DMBK-4012 (OPTION)

B (Soldering) Side

S/N 10001 to 10095



AD-100 BOARD
1-649-757-11

IC301	H-15	IC401	N-13
IC302	C-15	IC402	N-14
IC303	C-10	IC403	N-14
IC304	A-3	IC404	O-13
IC305	A-3	IC405	O-13
IC306	D-2	IC406	M-14
IC307	D-2	IC407	M-13
IC308	H-2	IC408	G-4
IC309	H-2	IC501	G-10
IC310	K-2	IC502	G-10
IC311	N-1	IC503	K-5
IC312	N-1	IC504	K-5
IC313	N-1	IC505	F-11
IC314	N-15	IC506	F-7
IC315	N-15	IC507	F-7
IC316	N-15	IC508	M-4
IC317	N-15	IC509	F-12
IC318	N-15	IC510	F-12
IC319	N-15	IC511	F-9
IC320	N-15	IC512	G-9
IC321	N-15	IC513	G-9
IC322	N-15	IC514	N-4
IC323	N-15	IC601	N-4
IC324	N-15	IC602	N-6
IC325	N-15	IC603	M-5
IC326	N-15	IC604	L-10
IC327	N-15	IC605	M-11
IC328	N-15	IC606	M-11
IC329	N-15	IC607	M-11
IC330	N-15	IC608	M-11
IC331	N-15	IC609	M-11
IC332	N-15	IC610	M-11
IC333	N-15	IC611	M-11
IC334	N-15	IC612	M-11
IC335	N-15	IC613	M-11
IC336	N-15	IC614	M-11
IC337	N-15	IC615	M-11
IC338	N-15	IC616	M-11
IC339	N-15	IC617	M-11
IC340	N-15	IC618	M-11
IC341	N-15	IC619	M-11
IC342	N-15	IC620	M-11
IC343	N-15	IC621	M-11
IC344	N-15	IC622	M-11
IC345	N-15	IC623	M-11
IC346	N-15	IC624	M-11
IC347	N-15	IC625	M-11
IC348	N-15	IC626	M-11
IC349	N-15	IC627	M-11
IC350	N-15	IC628	M-11
IC351	N-15	IC629	M-11
IC352	N-15	IC630	M-11
IC353	N-15	IC631	M-11
IC354	N-15	IC632	M-11
IC355	N-15	IC633	M-11
IC356	N-15	IC634	M-11
IC357	N-15	IC635	M-11
IC358	N-15	IC636	M-11
IC359	N-15	IC637	M-11
IC360	N-15	IC638	M-11
IC361	N-15	IC639	M-11
IC362	N-15	IC640	M-11
IC363	N-15	IC641	M-11
IC364	N-15	IC642	M-11
IC365	N-15	IC643	M-11
IC366	N-15	IC644	M-11
IC367	N-15	IC645	M-11
IC368	N-15	IC646	M-11
IC369	N-15	IC647	M-11
IC370	N-15	IC648	M-11
IC371	N-15	IC649	M-11
IC372	N-15	IC650	M-11
IC373	N-15	IC651	M-11
IC374	N-15	IC652	M-11
IC375	N-15	IC653	M-11
IC376	N-15	IC654	M-11
IC377	N-15	IC655	M-11
IC378	N-15	IC656	M-11
IC379	N-15	IC657	M-11
IC380	N-15	IC658	M-11
IC381	N-15	IC659	M-11
IC382	N-15	IC660	M-11
IC383	N-15	IC661	M-11
IC384	N-15	IC662	M-11
IC385	N-15	IC663	M-11
IC386	N-15	IC664	M-11
IC387	N-15	IC665	M-11
IC388	N-15	IC666	M-11
IC389	N-15	IC667	M-11
IC390	N-15	IC668	M-11
IC391	N-15	IC669	M-11
IC392	N-15	IC670	M-11
IC393	N-15	IC671	M-11
IC394	N-15	IC672	M-11
IC395	N-15	IC673	M-11
IC396	N-15	IC674	M-11
IC397	N-15	IC675	M-11
IC398	N-15	IC676	M-11
IC399	N-15	IC677	M-11
IC400	N-15	IC678	M-11
IC401	N-15	IC679	M-11
IC402	N-15	IC680	M-11
IC403	N-15	IC681	M-11
IC404	N-15	IC682	M-11
IC405	N-15	IC683	M-11
IC406	N-1		

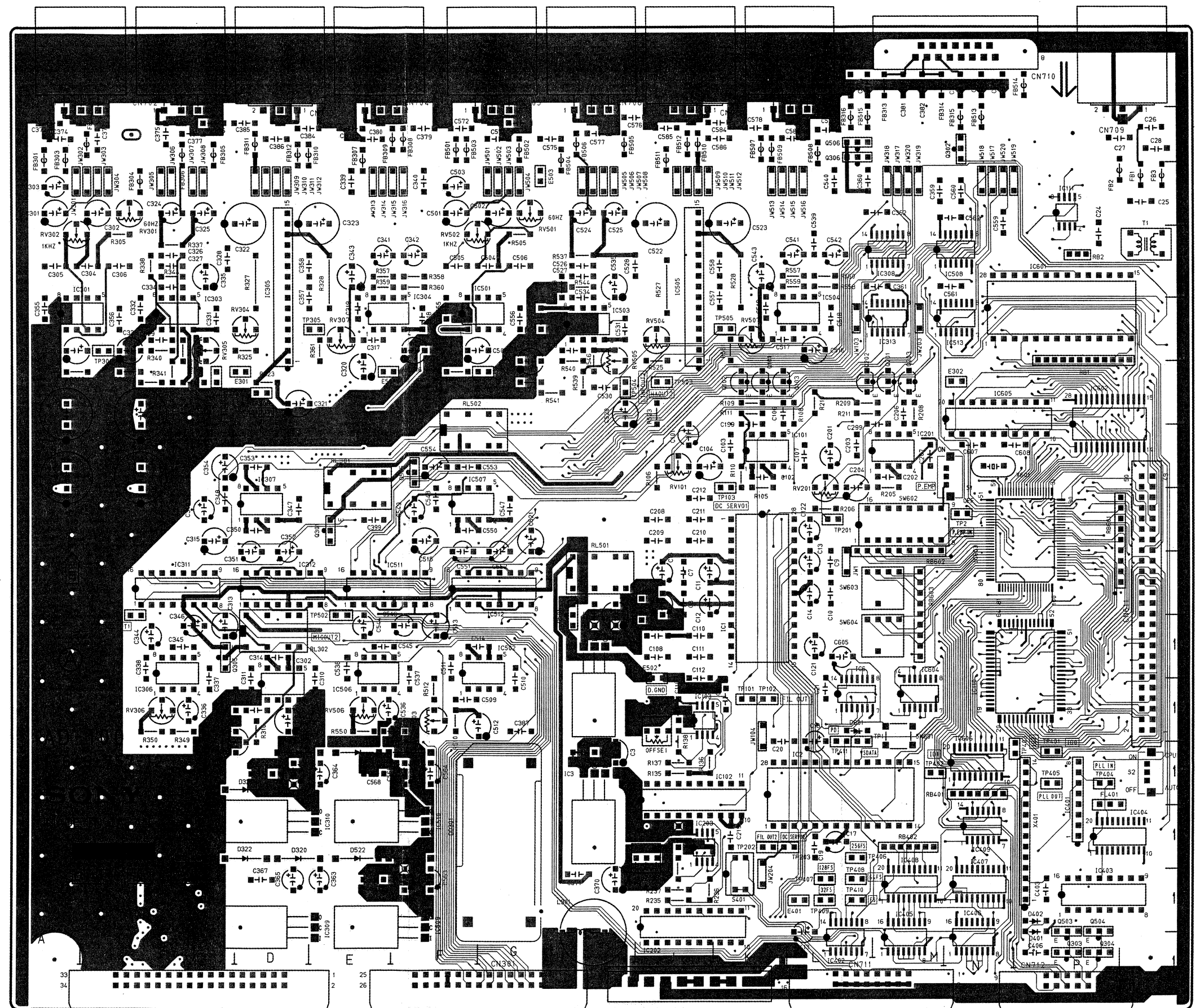
* : B (Soldering) Side mount

AD-100
DMBK-4012 (OPTION)

A (Component) Side

CN301	G-15
CN302	C-15
CN611	C-5
CN702	C-5
CN703	C-5
CN704	C-5
CN705	G-17
CN706	K-17
CN708	L-17
CN709	P-17
CN711	L-15
CN712	P-15
CN715	J-15
DD301	F-13
D1	*H-1
D2	*H-1
D3	*H-1
D4	*L-1
D5	*M-1
D6	*M-1
D7	*P-1
D8	*P-1
D101	*P-1
D202	*M-1
D201	*M-1
D202	*M-1
D301	*A-1
D302	*A-1
D303	*B-1
D304	*E-1
D305	*E-1
D306	*D-1
D307	*D-1
D308	*C-1
D309	*C-1
D310	*C-1
D311	*C-1
D312	*C-1
D313	*C-1
D314	*C-1
D315	*C-1
D316	*E-1
D317	*E-1
D318	*E-1
D319	*D-1
D320	*D-1
D321	*D-1
D322	*D-1
D323	*D-1
D324	*D-1
D325	*M-1
D326	*M-1
D327	*M-1
D328	*M-1
D401	*P-1
D402	*P-1
D501	*G-1
D502	*G-1
D503	*H-1
D504	*H-1
D505	*H-1
D506	*H-1
D507	*J-1
D508	*J-1
D509	*J-1
D510	*H-1
D511	*H-1
D512	*H-1
D513	*H-1
D514	*E-1
D515	*E-1
D516	*E-1
D517	*E-1
D518	*K-1
D519	*K-1
D520	*K-1
D521	*K-1
D522	*F-1
D523	*F-1
D524	*F-1
D525	*N-1
D526	*N-1
D527	*P-1
D528	*P-1
D601	L-1
BR301	N-1
BR401	N-1
BR501	L-1
BR502	L-1
BR503	J-1
C1	K-1
C2	L-1
C3	L-1
C4	L-1
C5	L-1
C101	K-1
C102	K-1
C103	N-1
C110	N-1
C111	N-1
C201	M-1
C202	M-1
C203	J-1
C301	J-1
C302	D-1
C303	D-1
C304	D-1
C305	D-1
C306	D-1
C307	B-1
C308	B-1
C309	M-1
C310	E-1
C311	E-1
C312	C-1
C313	C-1

KC401	P-13
KC402	P-15
KC403	P-16
KC404	P-17
KC405	P-18
KC406	P-19
KC407	P-20
KC408	M-14
KC409	N-14
KC410	N-15
KC411	M-13
KC502	G-10
KC503	G-11
KC504	L-3
KC505	L-4
KC506	E-7
KC507	F-7
KC508	F-8
KC509	TF-13
KC510	TF-13
KC511	TF-13
KC512	TF-13
KC513	P-25
KC601	P-24
KC602	P-25
KC603	N-9
KC604	M-10
KC605	N-11
KC606	N-11
Q101	K-6
Q102	K-6
Q103	L-6
Q201	M-6
Q202	M-6
Q203	M-6
Q301	E-8
Q302	E-8
Q303	C-15
Q304	C-15
Q305	L-2
Q306	L-2
Q501	H-10
Q502	H-10
Q503	P-14
Q504	F-7
Q505	F-7
Q506	L-2
RL301	E-7
RL302	E-10
RL501	H-7
RL502	F-6
RV101	J-11
RV102	J-11
RV201	L-3
RV202	L-3
RV301	B-4
RV302	A-4
RV303	A-4
RV304	C-5
RV305	C-5
RV306	C-5
RV307	B-5
RV501	E-4
RV502	E-4
RV503	F-11
RV504	J-6
RV505	J-6
RV506	E-11
RV507	K-6
SW601	M-11
SW602	M-11
SW603	H-9
SW604	L-10
S1	N-7
S2	O-12
S401	K-14
TP1	L-11
TP101	N-9
TP102	K-11
TP103	K-8
TP201	K-13
TP202	K-13
TP203	L-13
TP301	B-10
TP302	D-6
TP303	D-6
TP304	E-5
TP305	E-5
TP401	P-12
TP402	M-12
TP403	P-12
TP404	P-12
TP405	P-12
TP406	P-12
TP407	L-14
TP408	L-14
TP409	L-14
TP410	L-14
TP411	L-14
TP501	E-10
TP502	E-10
TP503	J-6
TP504	K-6
TP505	K-6
TP506	K-6
X401	P-13
X402	P-7



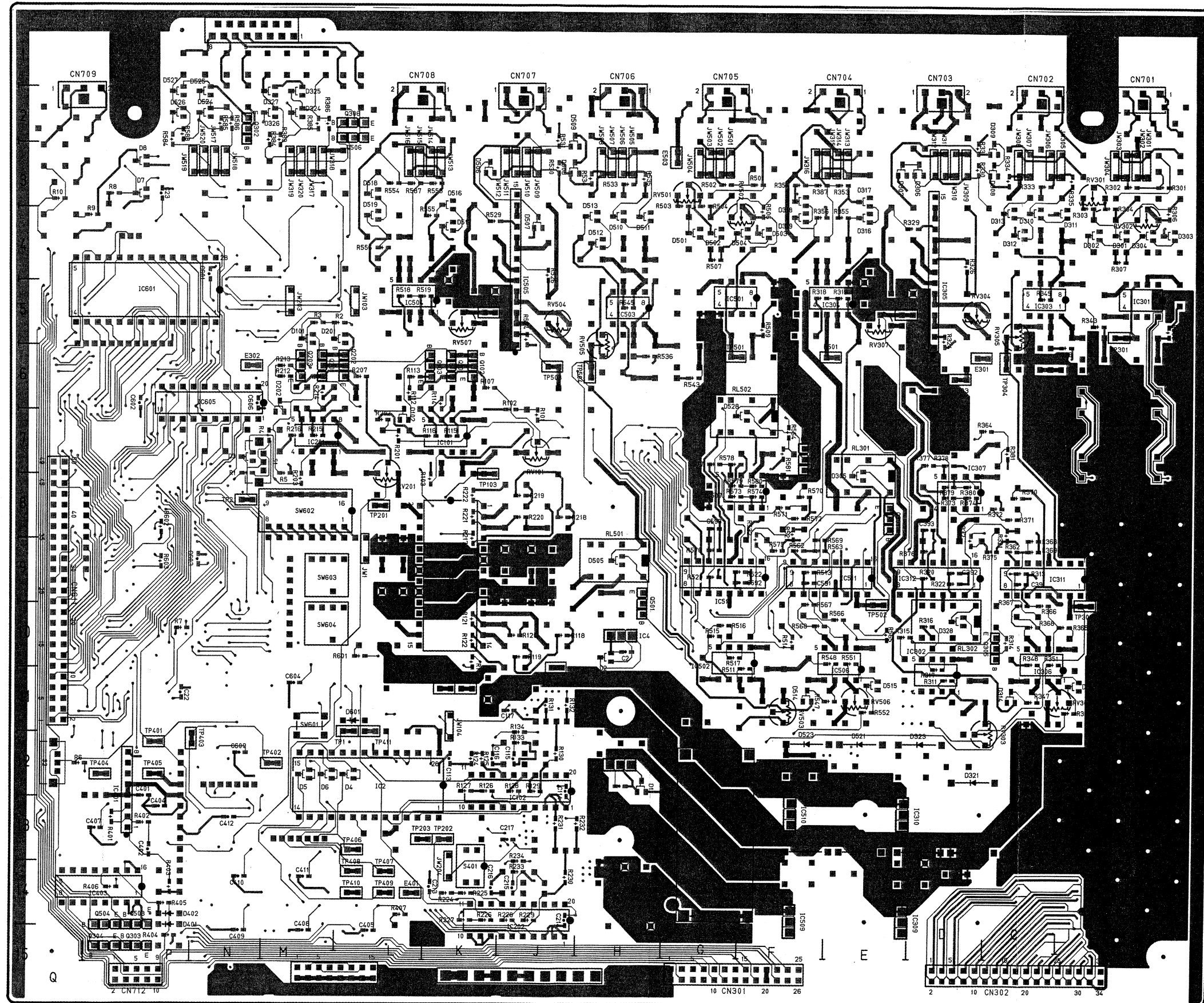
AD-100

B (Soldering) Side

S/N 10096 and higher

AD-100
DMBK-4012 (OPTION)

AD-100
DMBK-4012 (OPTION)



1-649-757-12

3-65 (b)

AD-100 BOARD
1-649-757-12

CN301	Q15	IC401	P-13
CN302	Q16	IC402	L-15
CN303	Q17	IC403	L-15
CN304	Q18	IC404	O-13
CN305	Q19	IC405	M-14
CN306	Q20	IC406	N-14
CN307	Q21	IC407	N-13
CN308	Q22	IC408	M-13
CN309	Q23	IC409	N-13
CN310	Q24	IC501	N-10
CN311	Q25	IC502	G-10
CN312	Q26	IC503	H-6
CN313	Q27	IC504	H-6
CN314	Q28	IC505	J-4
CN315	Q29	IC506	E-11
CN316	Q30	IC507	N-7
CN317	Q31	IC508	N-4
CN318	Q32	IC509	F-14
CN319	Q33	IC510	F-13
CN320	Q34	IC511	F-13
CN321	Q35	IC512	G-9
CN322	Q36	IC513	N-5
CN323	Q37	IC601	P-5
CN324	Q38	IC602	P-5
CN325	Q39	IC603	N-9
CN326	Q40	IC604	M-10
CN327	Q41	IC605	N-6
CN328	Q42	IC606	N-11
CN329	Q43	Q101	K-6
CN330	Q44	Q102	K-6
CN331	Q45	Q103	L-6
CN332	Q46	Q201	M-4
CN333	Q47	Q202	L-6
CN334	Q48	Q203	M-6
CN335	Q49	Q301	N-2
CN336	Q50	Q302	N-2
CN337	Q51	Q303	P-15
CN338	Q52	Q304	P-15
CN339	Q53	Q305	P-15
CN340	Q54	Q306	C-10
CN341	Q55	Q501	L-10
CN342	Q56	Q502	N-14
CN343	Q57	Q503	P-14
CN344	Q58	Q504	F-2
CN345	Q59	Q505	F-2
CN346	Q60	Q506	F-2
CN347	Q61	RL301	E-7
CN348	Q62	RL302	E-10
CN349	Q63	RL501	F-8
CN350	Q64	RL502	F-8
CN351	Q65	RV101	J-7
CN352	Q66	RV102	J-11
CN353	Q67	RV201	L-6
CN354	Q68	RV202	J-14
CN355	Q69	RV301	B-4
CN356	Q70	RV302	B-4
CN357	Q71	RV303	C-12
CN358	Q72	RV304	D-2
CN359	Q73	RV305	D-2
CN360	Q74	RV306	B-1
CN361	Q75	RV307	E-5
CN362	Q76	RV501	F-11
CN363	Q77	RV502	F-11
CN364	Q78	RV503	G-4
CN365	Q79	RV504	E-11
CN366	Q80	RV505	N-9
CN367	Q81	RV506	M-5
CN368	Q82	RV507	K-5
CN369	Q83	SW601	M-11
CN370	Q84	SW602	M-8
CN371	Q85	SW603	L-8
CN372	Q86	SW604	L-10
CN373	Q87	S1	N-7
CN374	Q88	S2	Q-12
CN375	Q89	S401	K-14
CN376	Q90	TP1	L-11
CN377	Q91	TP2	N-8
CN378	Q92	TP101	K-11
CN379	Q93	TP102	K-8
CN380	Q94	TP201	L-8
CN381	Q95	TP202	K-13
CN382	Q96	TP203	L-13
CN383	Q97	TP301	B-6
CN384	Q98	TP302	B-10
CN385	Q99	TP303	G-6
CN386	Q100	TP304	C-6
CN387	Q101	TP305	P-12
CN388	Q102	TP401	M-12
CN389	Q103	TP402	P-12
CN390	Q104	TP403	P-12
CN391	Q105	TP404	P-12
CN392	Q106	TP405	P-12
CN393	Q107	TP406	L-13
CN394	Q108	TP407	L-14
CN395	Q109	TP408	L-14
CN396	Q110	TP409	L-14
CN397	Q111	TP410	L-14
CN398	Q112	TP411	L-12
CN399	Q113	TP501	E-10
CN400	Q114	TP502	G-6
CN401	Q115	TP503	L-6
CN402	Q116	TP504	H-6
CN403	Q117	TP505	K-5
CN404	Q118	X401	P-13
CN405	Q119	X601	P-7

* : B (Soldering) Side mount

SECTION 4
SCHEMATIC DIAGRAMS

4-1. DMX-B4008/DMX-B4016 METER UNIT/CONSOLE

Board Name	Circuit Function	Page
CN-838	Connector Board	4-35
CN-839	Connector Board	4-36
CN-840A (for UC/EK)	Connector Board	4-37
CN-840B (for J)	Connector Board	4-37
CN-841	Connector Board	4-37
CPU-145 (for DMX-B4008)	Control Panel Host CPU Board	4-8
CPU-145A (for DMX-B4016)	Control Panel Host CPU Board	4-8
IF-413	GPI Interface Board	4-15
IF-414 (for DMX-B4008)	Channel CPU Board	4-2
IF-414A (for DMX-B4016)	Channel CPU Board	4-2
IF-421 *	Meter Driver Board	4-31
KY-225	Channel Switch Board	4-24
LED-156	Channel Status LED Board	4-27
MOA-7A (for UC/EK)	Analog Monitor Communication Board	4-19
MOA-7B (for J)	Analog Monitor Communication Board	4-19
MT-88 *	Meter LED Board	4-33
PS-312	Control Panel Power Mix Board	4-38
SW-604	PFL Switch Board	4-29
SW-605	Start/Stop Switch Board	4-30
SW-606	Monitor Control Switch Board	4-37
VR-165	Monitor Volume Board	4-37
CONSOLE/METER UNIT Frame Wiring		4-34

*: METER UNIT

4-2. DMX-B4008 PROCESSOR

Board Name	Circuit Function	Page
CN-833	Connector Board	4-63
CN-834	Connector Board	4-64
CN-835	Connector Board	4-65
CN-836	Connector Board	4-66
CN-837	Connector Board	4-67
CPU-164	Processor Rack CPU Board	4-39
DIO-26	Digital Input/Output Board	4-45
DP-131	Processor Rack Power LED	4-69
MB-481	Processor Rack Mother Board	4-60
MIX-15	Mixing Board	4-53
PS-313	Processor Rack Power Mix Board	4-69
PROCESSOR Frame Wiring		4-69

4-3. DMX-B4016 PROCESSOR

Board Name	Circuit Function
CN-827	Connector Board
CN-828A	Connector Board
CN-828B	Connector Board
CN-830	Connector Board
CN-831	Connector Board
CN-832A (for UC/EK)	Connector Board
CN-832B (for J)	Connector Board
CPU-144	Processor Rack CPU Board
IPM-48	Digital Input Board
DP-131	Processor Rack Power LED
MB-480	Processor Rack Mother Board
MIX-16	Mixing Board
PS-314	Processor Rack Power Mix Board
PROCESSOR Frame Wiring	

4-4. OPTIONAL ACCESSORIES

Model Name	Board Name	Circuit Function
DMBK-4001	CN-842	Connector Board
	CPU-146	CPU Board
	KY-302	Switch Board
	MT-94	Connector Board
DMBK-4003	MT-94	Connector Board
DMBK-4007	DP-131	Processor Rack Power LED
DMBK-4010	IPM-48	Digital Input Board
	KY-225	Channel Switch Board
	LED-156	Channel Status LED Board
	MIX-16	Mixing Board
DMBK-4011	SW-604	PFL Switch Board
	SW-605	Start/Stop Switch Board
	MIX-16	Mixing Board
	AD-100	Mic/Line Amp AD Converter
DMBK-4012	SW-602	Switch Board
	VR-163	Volume Board

4-3. DMX-B4016 PROCESSOR

Board Name	Circuit Function	Page
CN-827	Connector Board	4-109
CN-828A	Connector Board	4-110
CN-828B	Connector Board	4-110
CN-830	Connector Board	4-111
CN-831	Connector Board	4-112
CN-832A (for UC/EK)	Connector Board	4-113
CN-832B (for J)	Connector Board	4-113
CPU-144	Processor Rack CPU Board	4-71
IPM-48	Digital Input Board	4-82
DP-131	Processor Rack Power LED	4-69
MB-480	Processor Rack Mother Board	4-106
MIX-16	Mixing Board	4-93
PS-314	Processor Rack Power Mix Board	4-115
PROCESSOR Frame Wiring		4-115

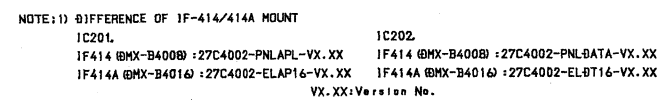
4-4. OPTIONAL ACCESSORIES

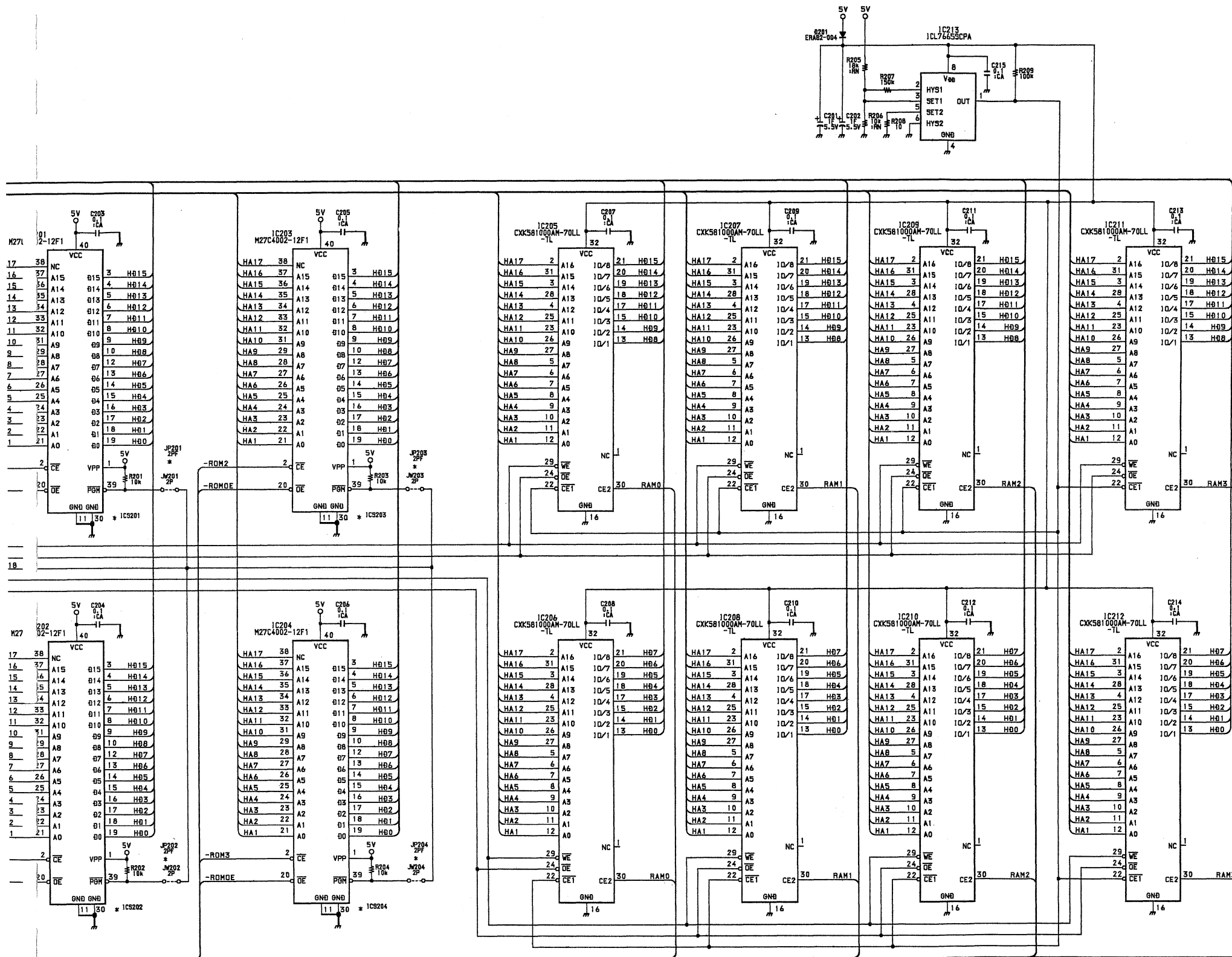
Model Name	Board Name	Circuit Function	Page
DMBK-4001	CN-842	Connector Board	4-128
	CPU-146	CPU Board	4-119
	KY-302	Switch Board	4-126
DMBK-4003	MT-94	Connector Board	4-36
DMBK-4007	DP-131	Processor Rack Power LED	4-69
DMBK-4010	IPM-48	Digital Input Board	4-82
	KY-225	Channel Switch Board	4-24
	LED-156	Channel Status LED Board	4-27
	MIX-16	Mixing Board	4-93
	SW-604	PFL Switch Board	4-29
	SW-605	Start/Stop Switch Board	4-30
DMBK-4011	MIX-16	Mixing Board	4-93
DMBK-4012	AD-100	Mic/Line Amp AD Converter	4-129
	SW-602	Switch Board	4-133
	VR-163	Volume Board	4-133

1

5

BOARD NO. 1-649-749-11
DMX-B4008/B4016



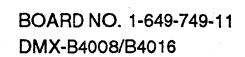


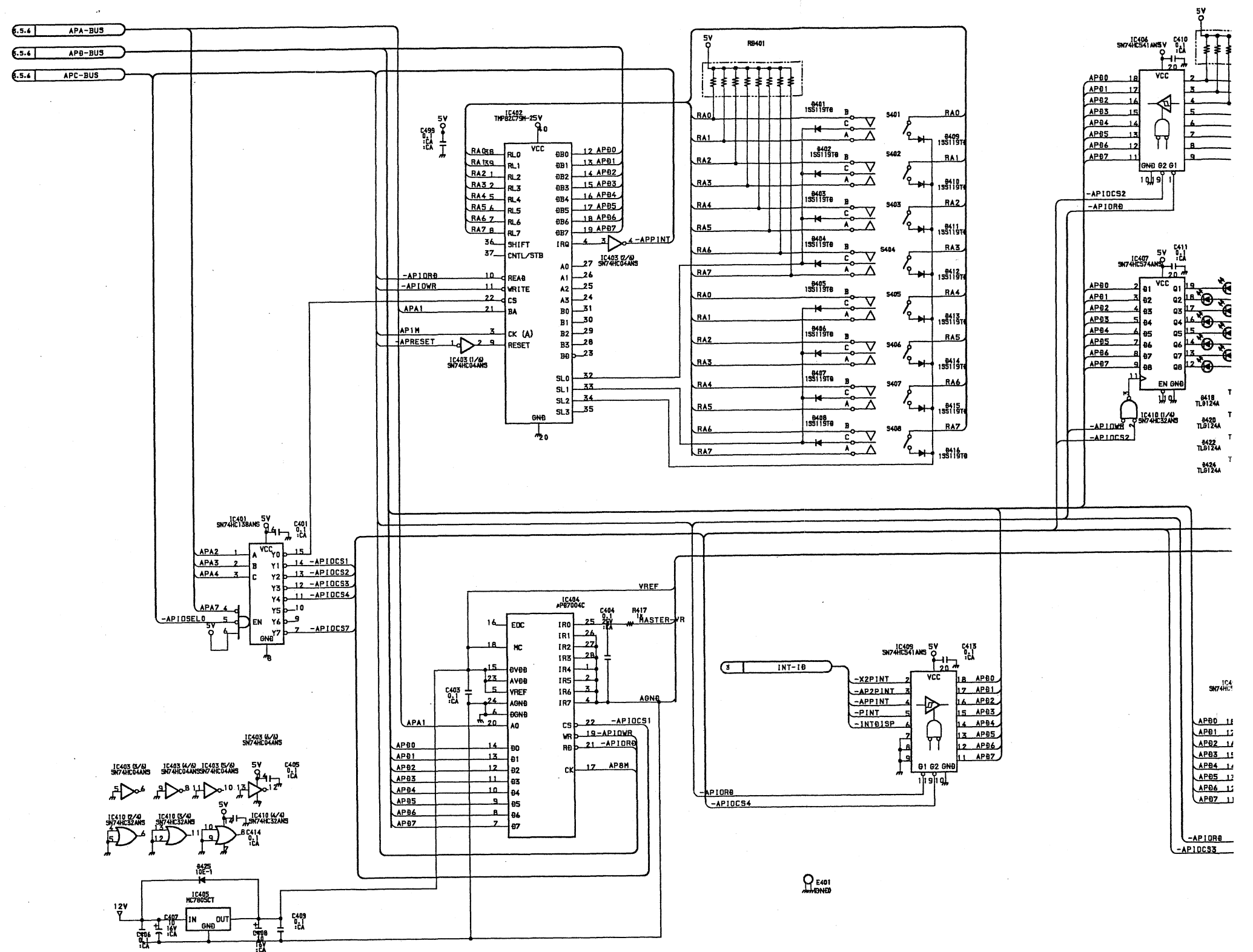
Channel CPU
IF-414 (for DMX-B4008)
IF-414A (for DMX-B4016) BOARD (2/6)

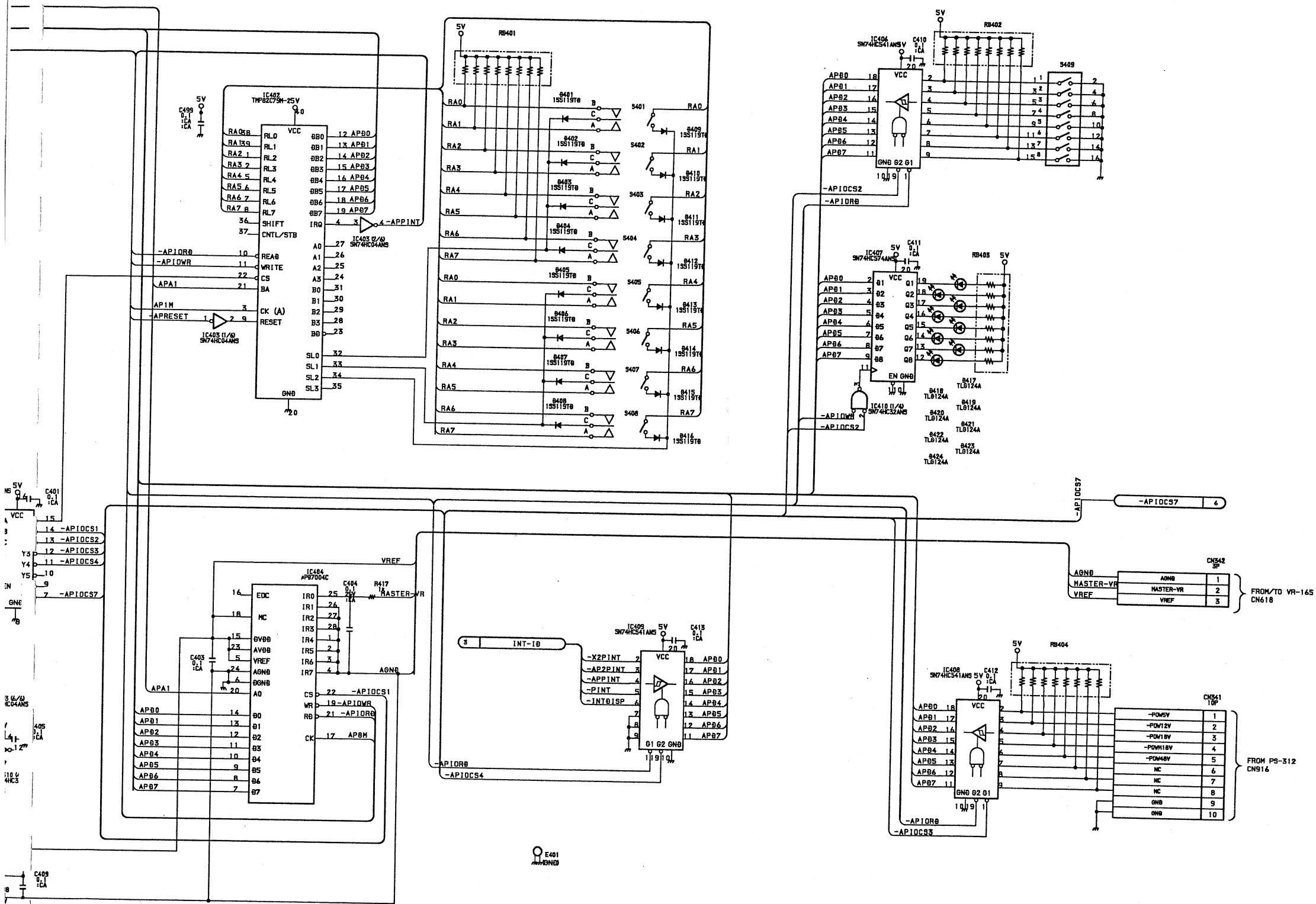
BOARD NO. 1-649-749-11
DMX-B4008/B4016

1. OF IF-414/414A MOUNT
2. IC202
3. B4008) : 27C4002-PNLAPL-VX.XX IF414 (DMX-B4008) : 27C4002-PNLBATA-VX.XX
4. 14A (DMX-B4016) : 27C4002-ELAP16-VX.XX IF414A (DMX-B4016) : 27C4002-ELBT16-VX.XX
5. VX.XX: Version No.









1

2

3

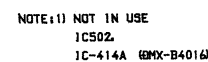
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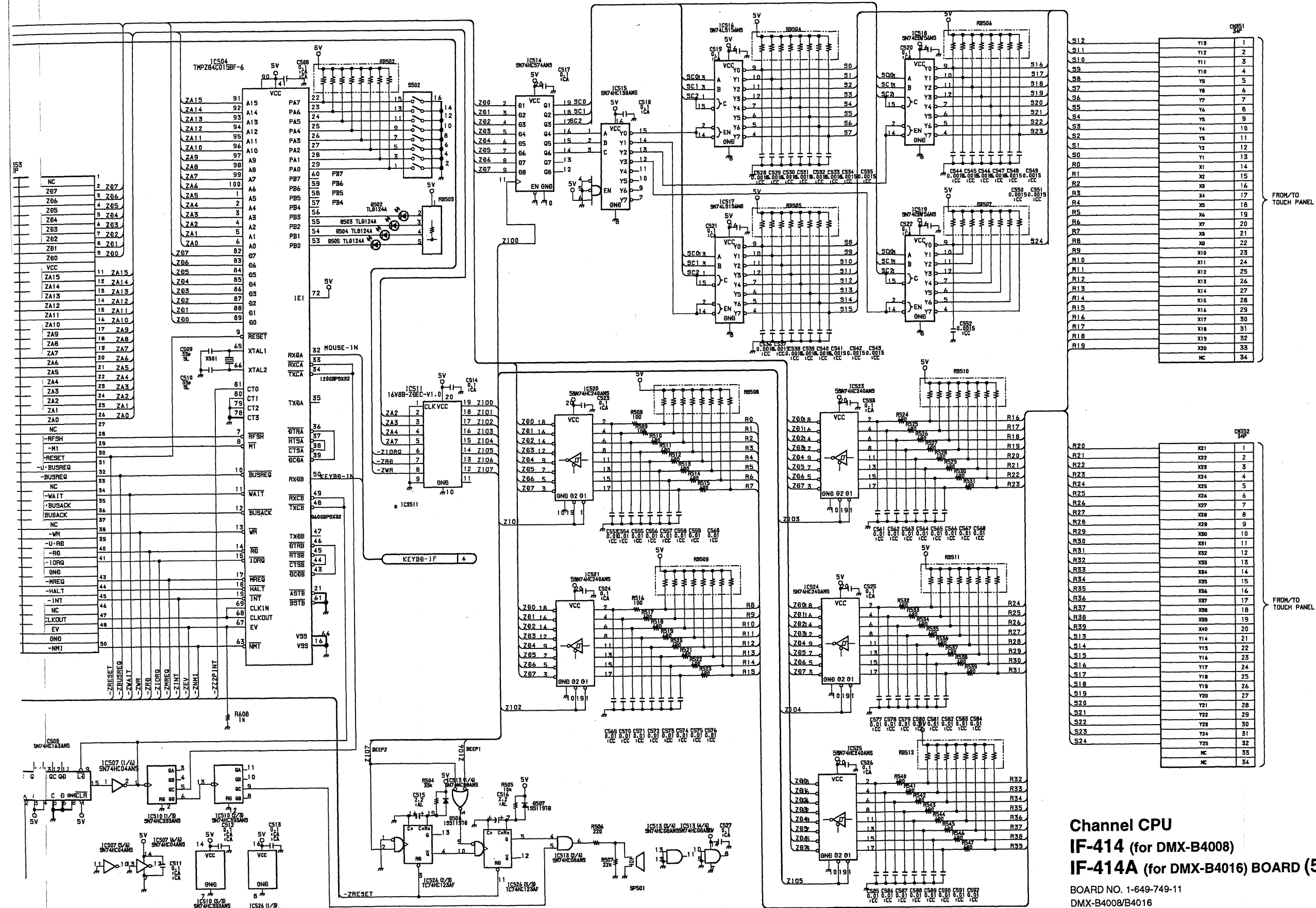
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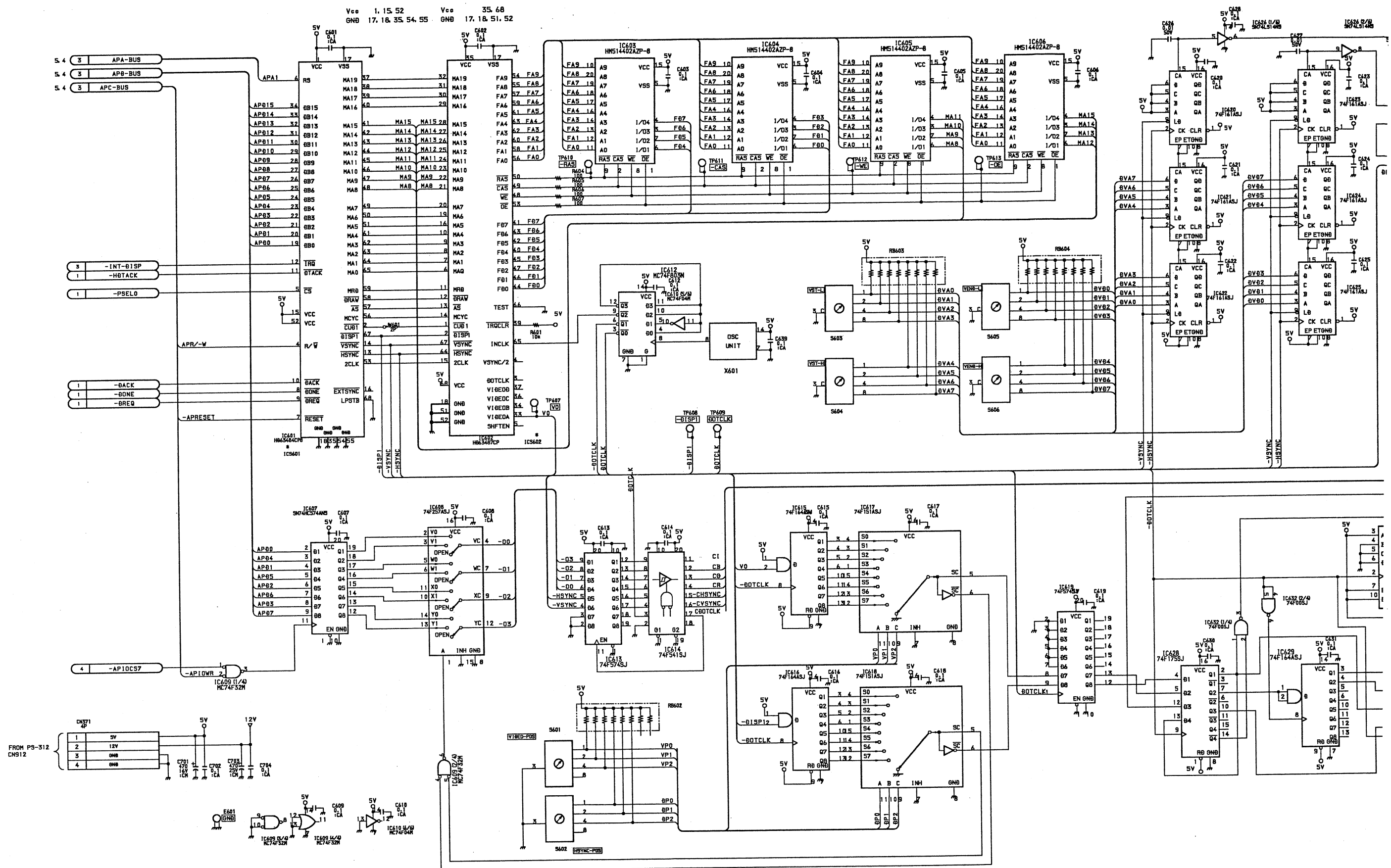
E F G H I J K L

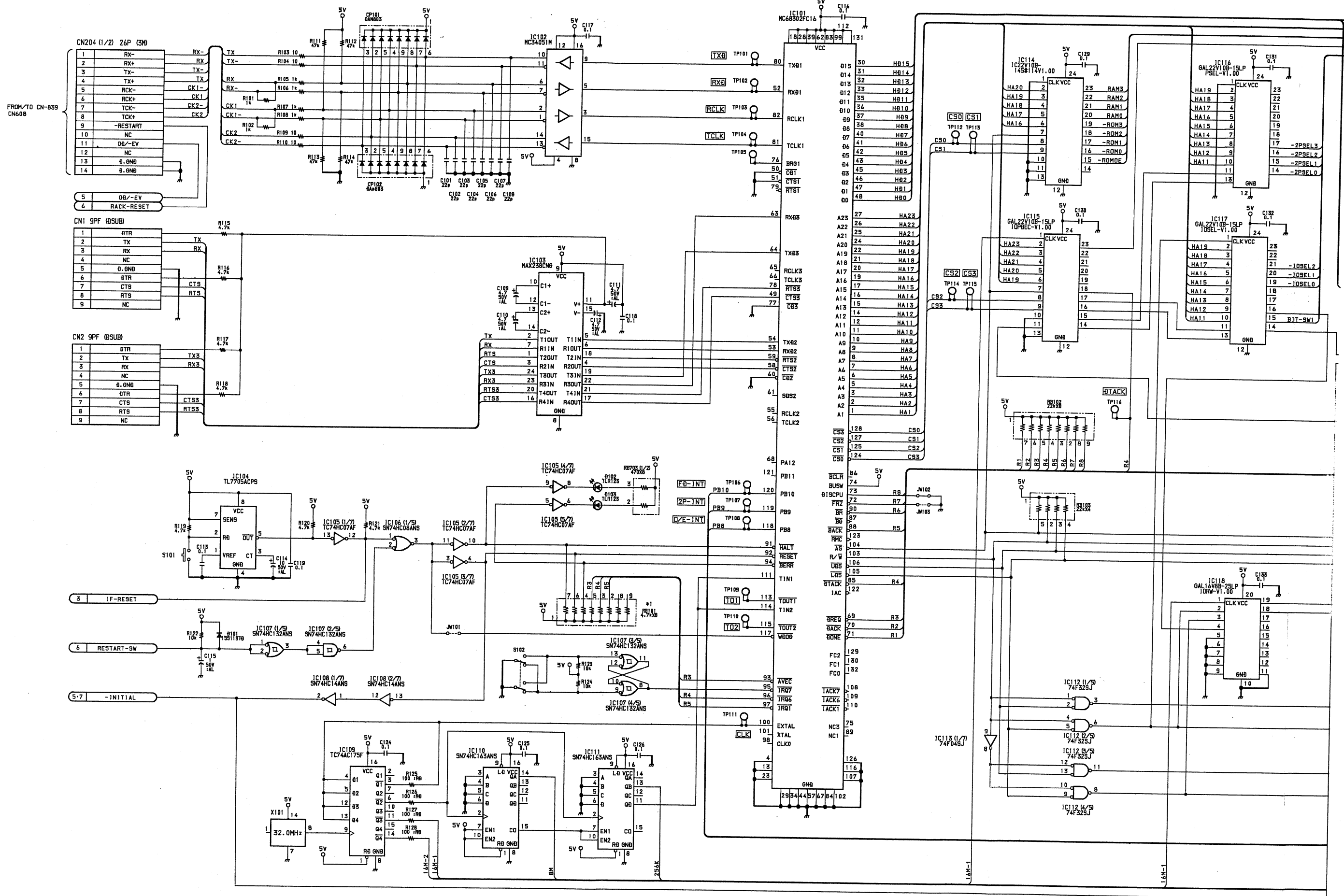
4-5

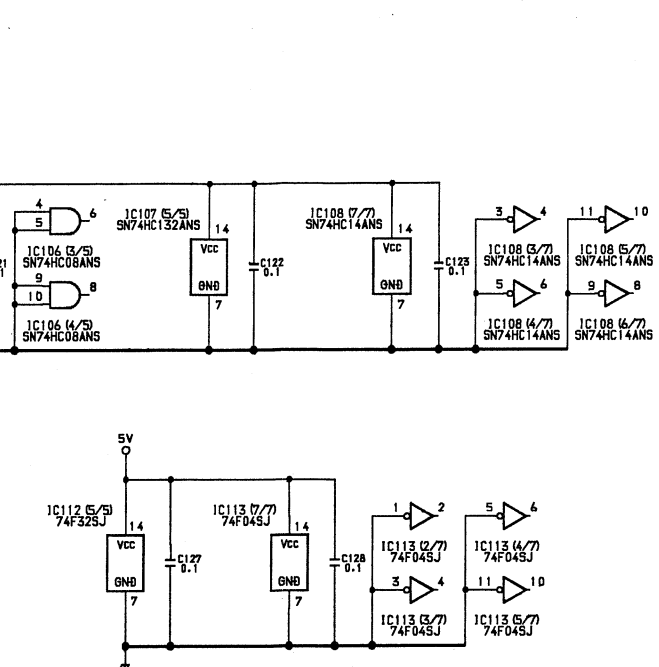




IF-414/414A (6/6) DMX-B4008/B4016 CONSOLE	IF-414/414A (6/6) DMX-B4008/B4016 CONSOLE
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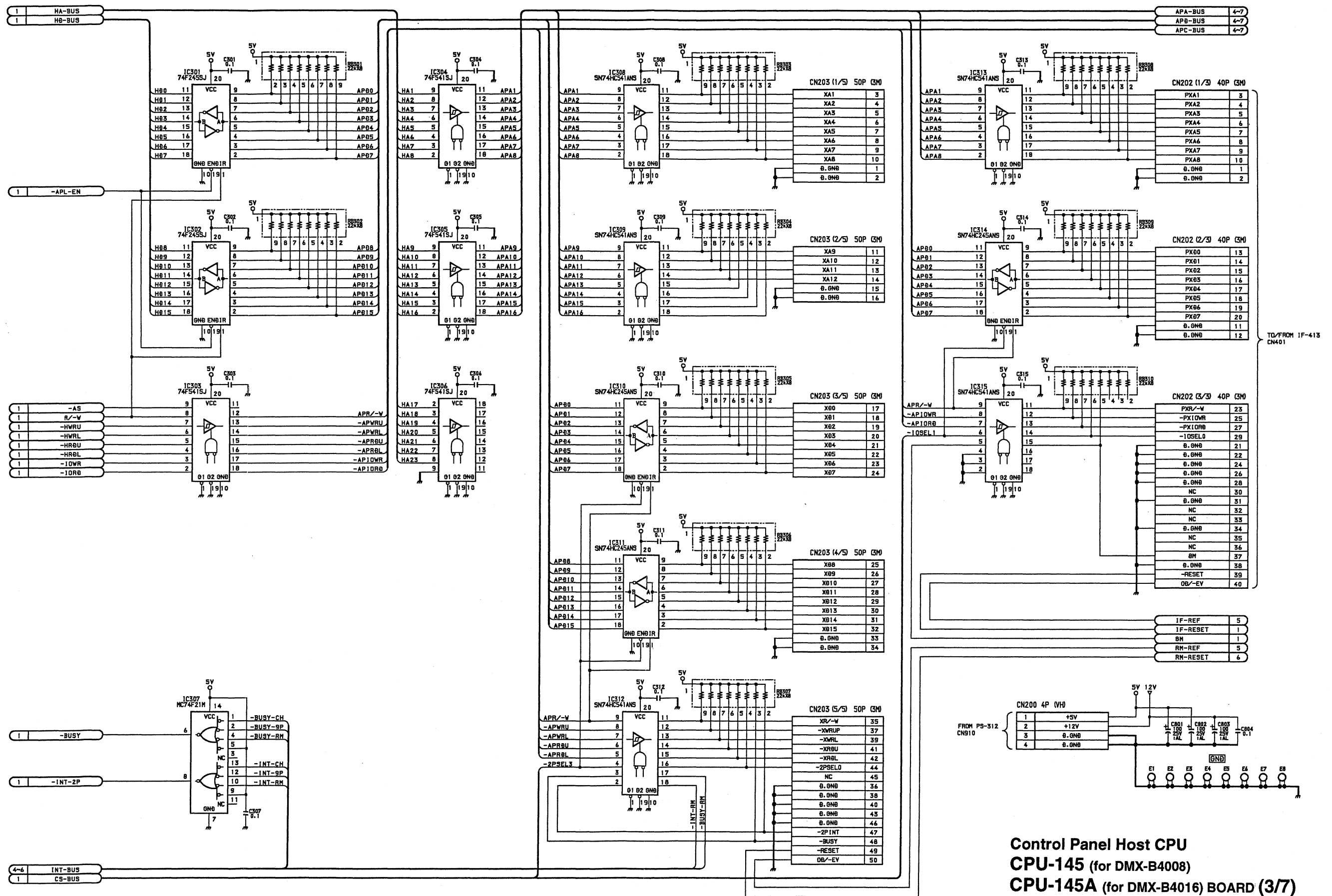


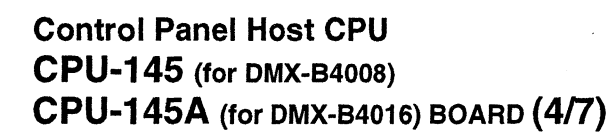
Control Panel Host CPU
CPU-145 (for DMX-B4008)
CPU-145A (for DMX-B4016) BOARD (1/7)

BOARD NO. 1-649-763-11
DMX-B4008/B4016

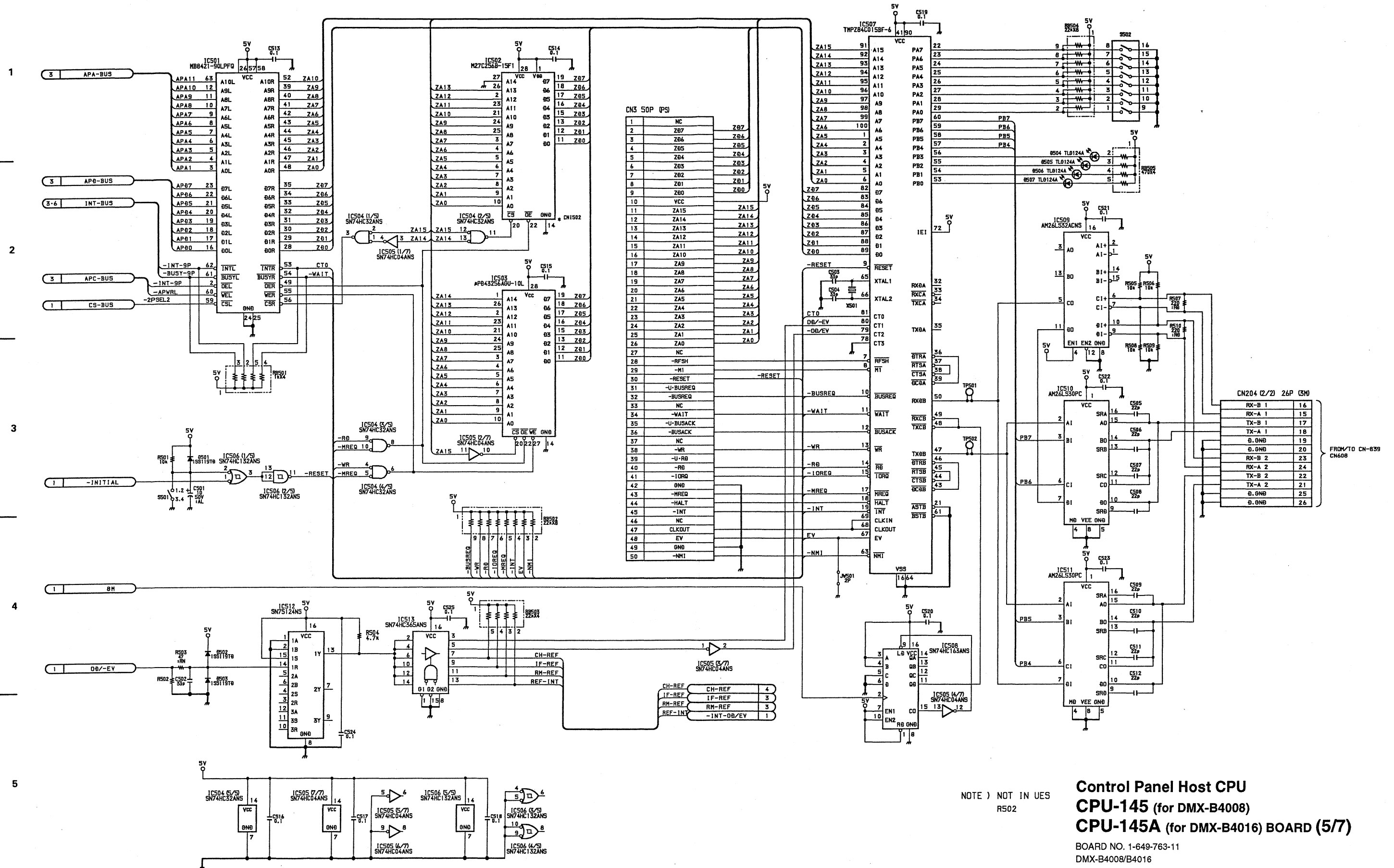
CPU-145/145A (2/7)
DMX-B4008/B4016 CONSOLE

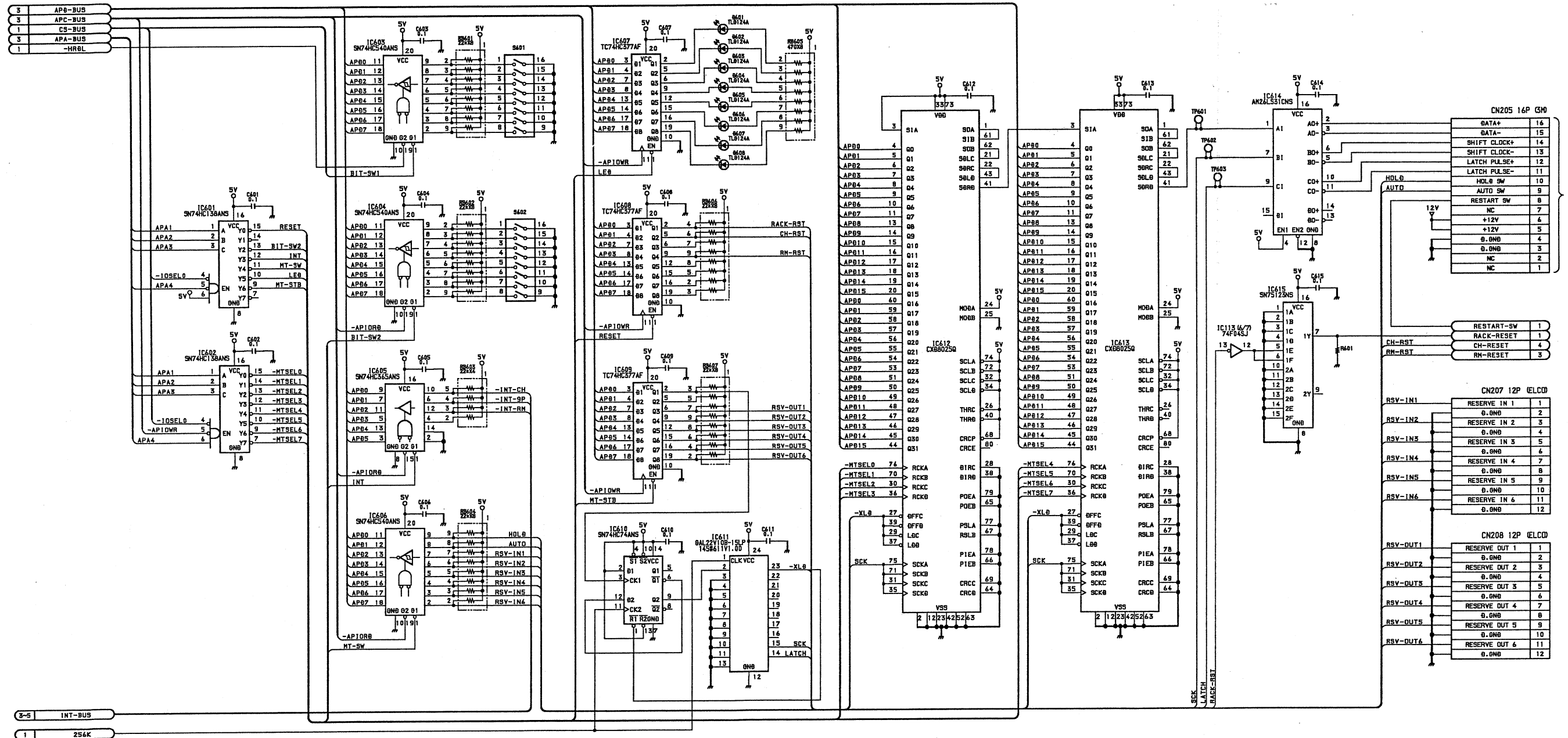






4-11





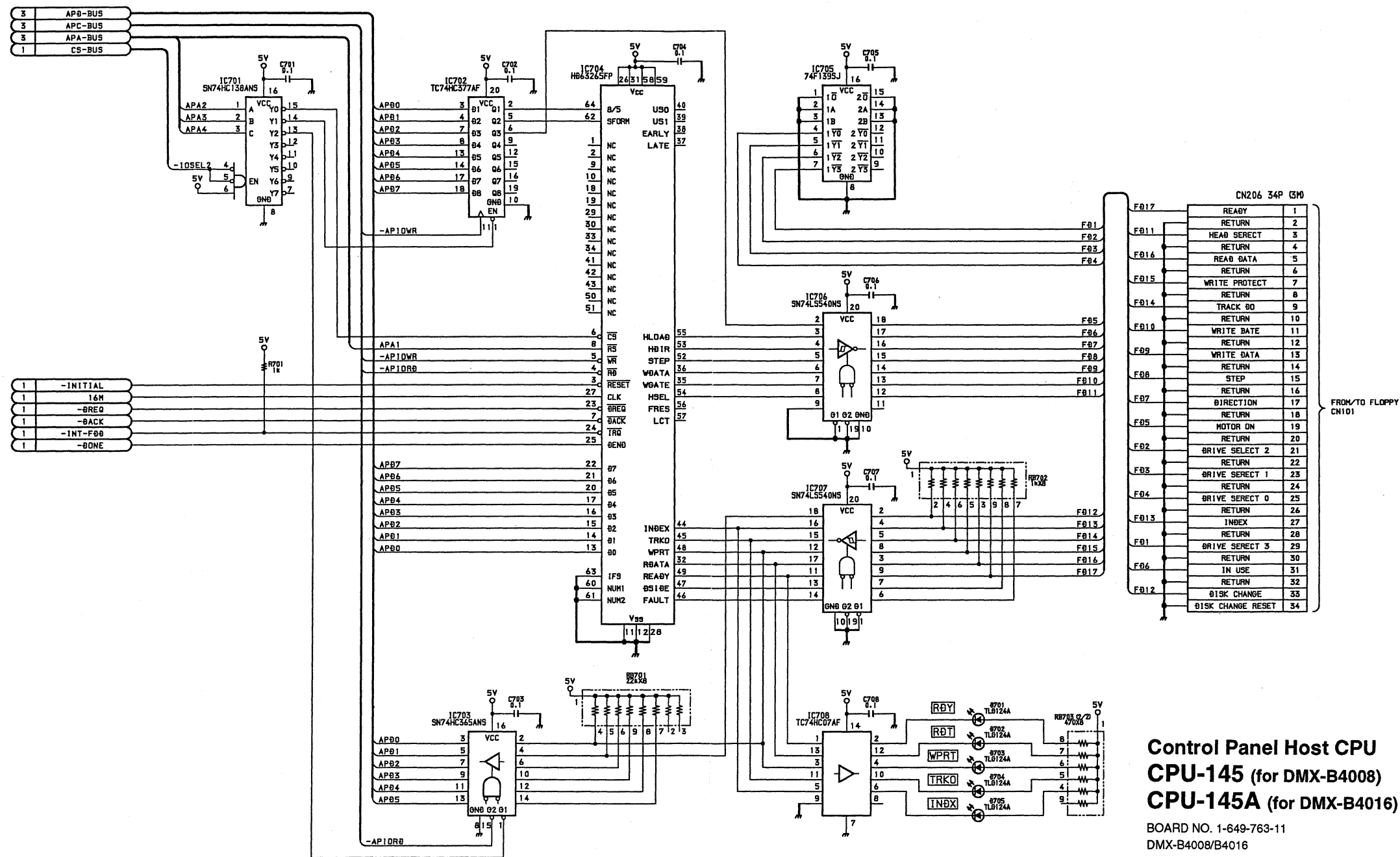
NOTE) NOT IN USE
R601

Control Panel Host CPU
CPU-145 (for DMX-B4008)
CPU-145A (for DMX-B4016) BOARD (6/7)

BOARD NO. 1-649-763-11
DMX-B4008/B4016

CPU-145/145A (7/7)
DMX-B4008/B4016 CONSOLE

CPU-145/145A (7/7)
DMX-B4008/B4016 CONSOLE



Control Panel Host CPU
CPU-145 (for DMX-B4008)
CPU-145A (for DMX-B4016) BOARD (7/7)

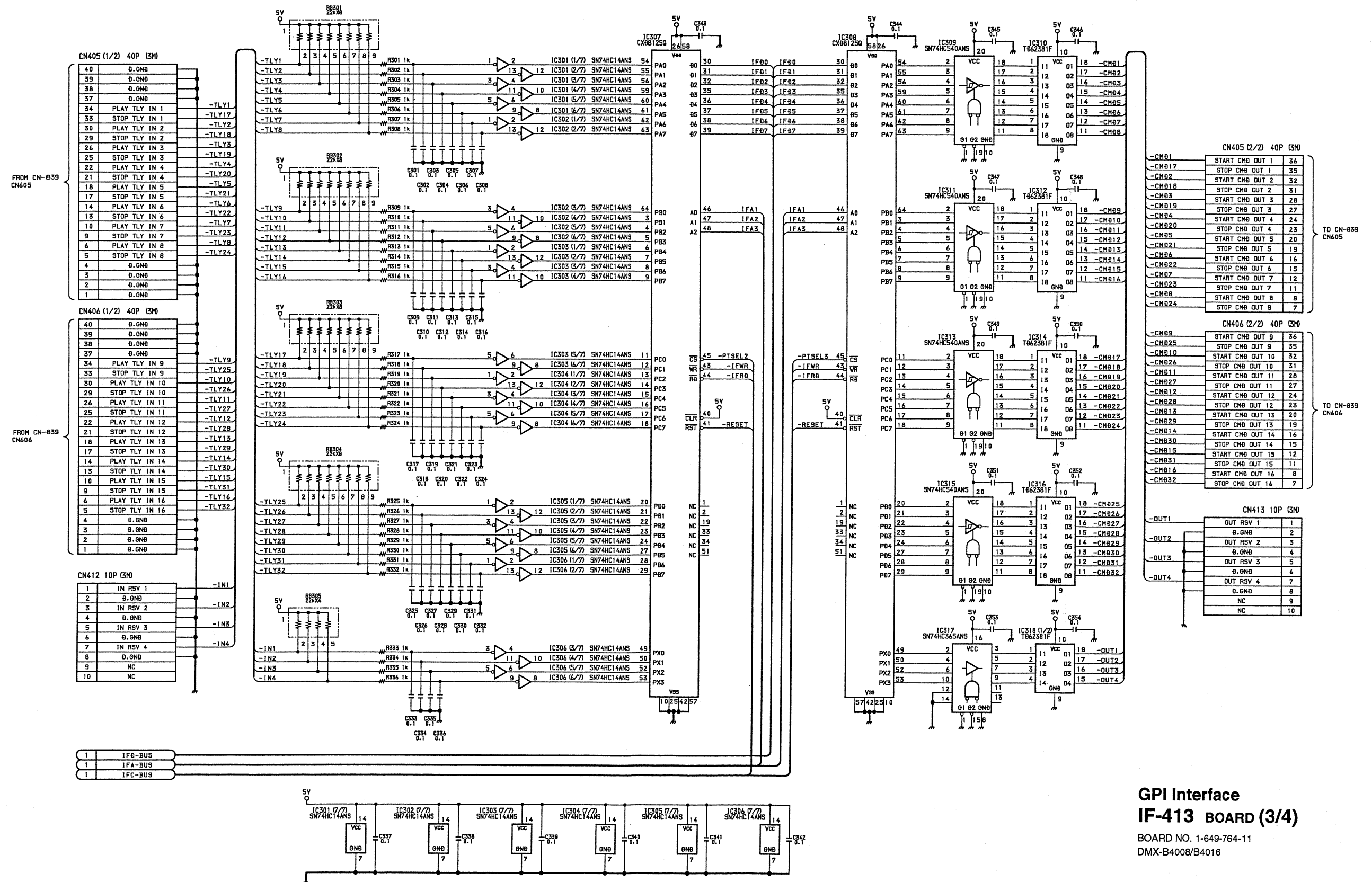
BOARD NO. 1-649-763-11
DMX-B4008/B4016

IF-413 (1/4)
DMX-B4008/B4016 CONSOLE



BOARD NO. 1-649-764-11
DMX-B4008/B4016

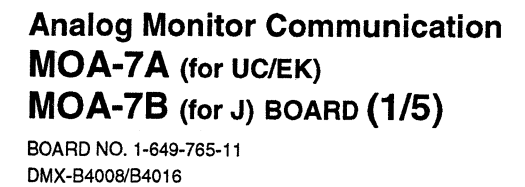


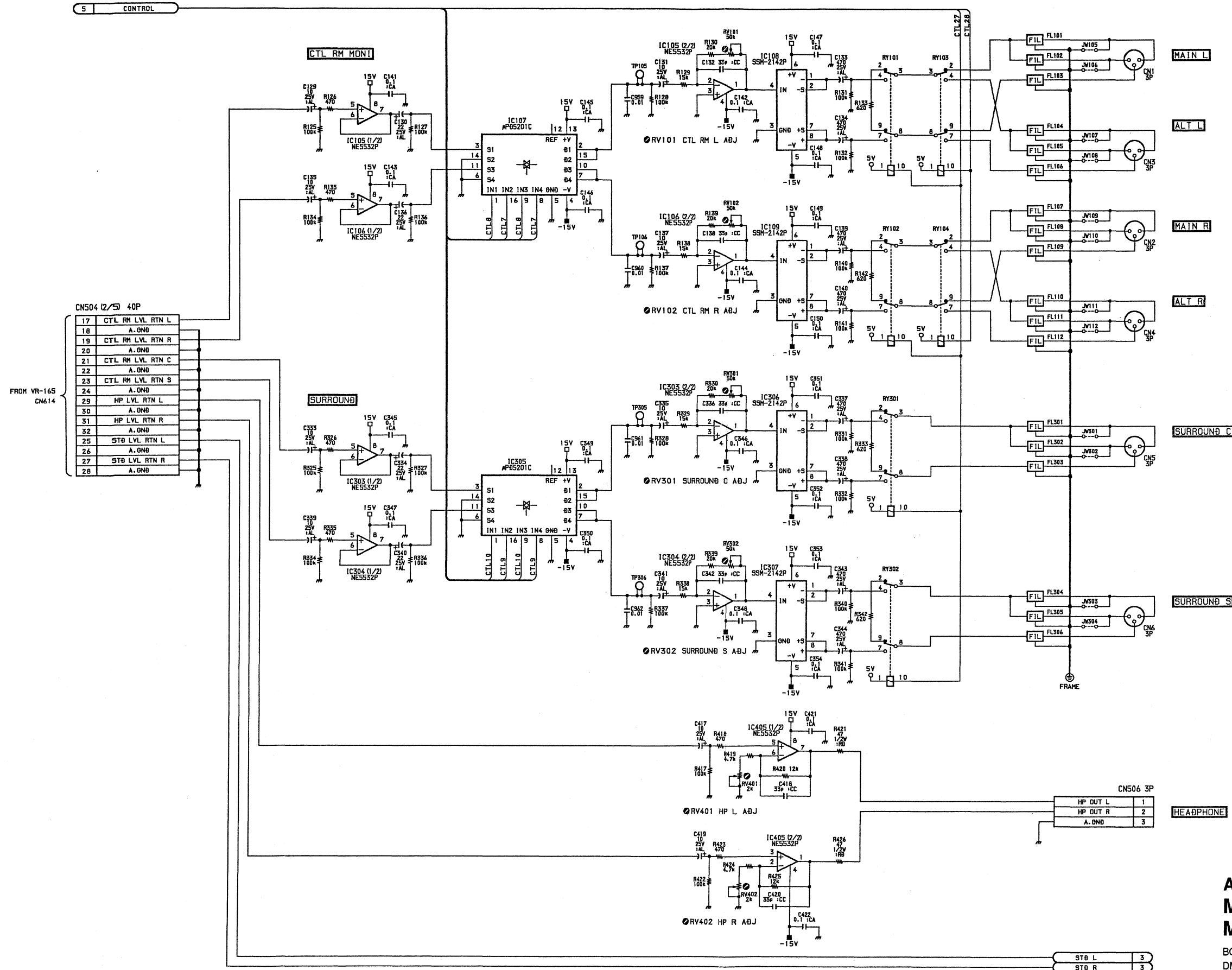


IF-413 (4/4)
DMX-B4008/B4016 CONSOLE



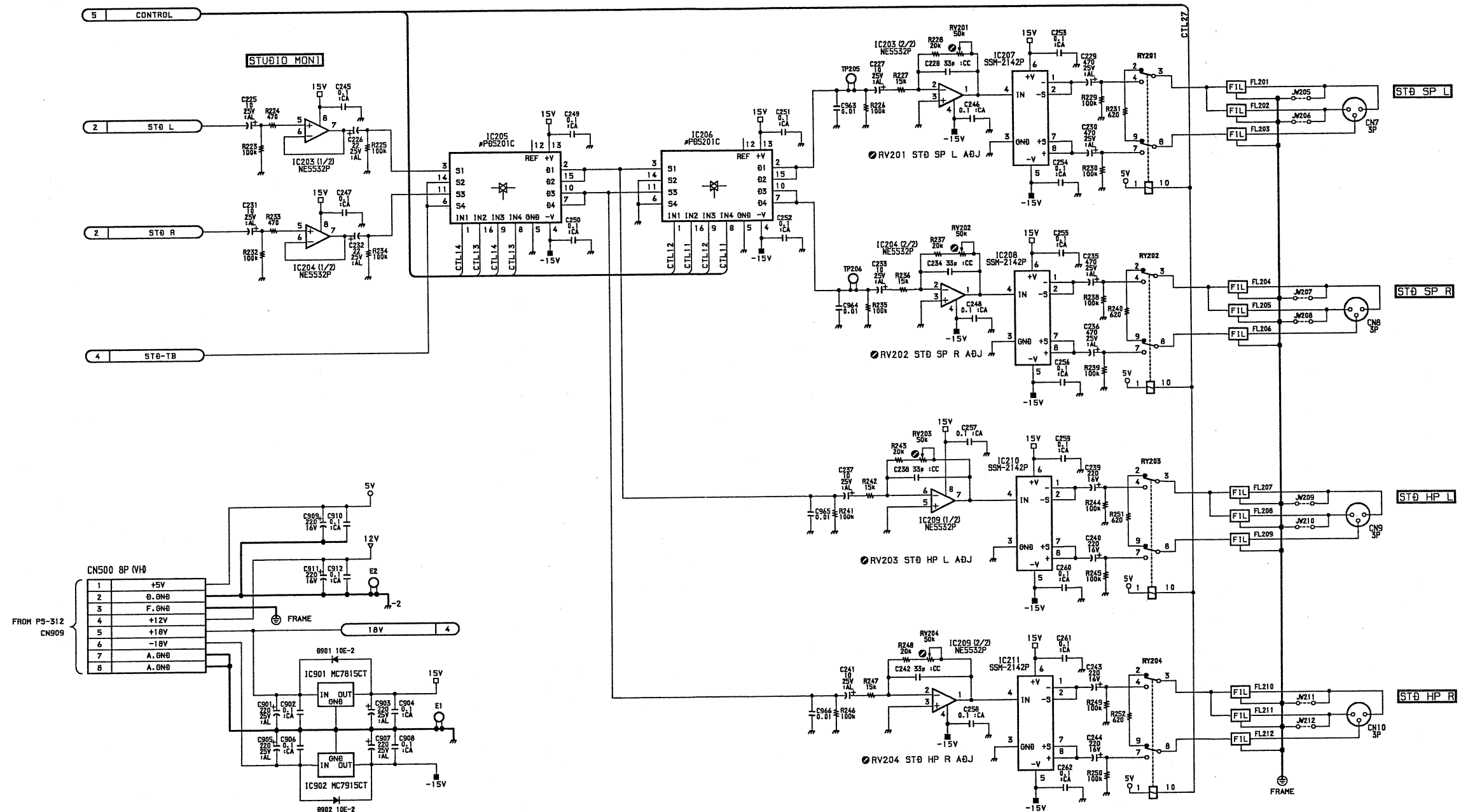
BOARD NO. 1-649-764-11
DMX-B4008/B4016





Analog Monitor Communication
MOA-7A (for UC/EK)
MOA-7B (for J) BOARD (2/5)

BOARD NO. 1-649-765-11
DMX-B4008/B4016



NOTE) DIFFERENCE OF A/B MOUNT

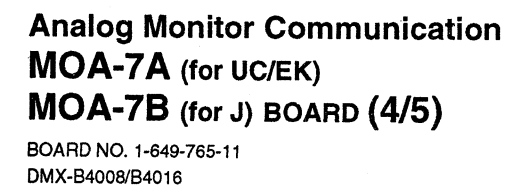
MOA-7A MOUNT
CN1~10 : XLR-3P MALE
NOT IN USE : FL201 FL204 FL207 FL210
JW206 JW208 JW210 JW212

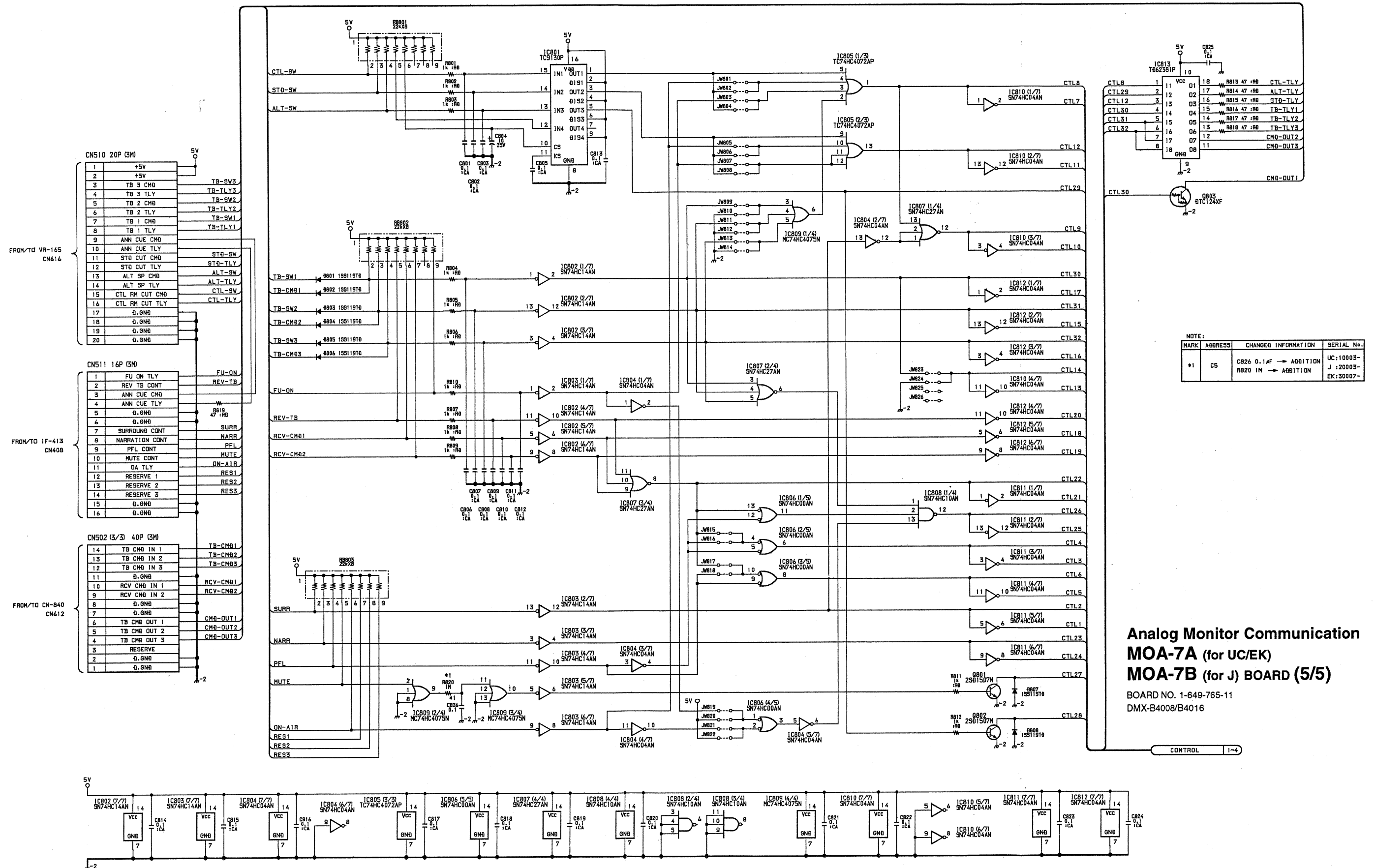
MOA-7B MOUNT
CN1~10 : XLR-3P FEMALE
NOT IN USE : FL202 FL205 FL208 FL211
JW205 JW207 JW209 JW211

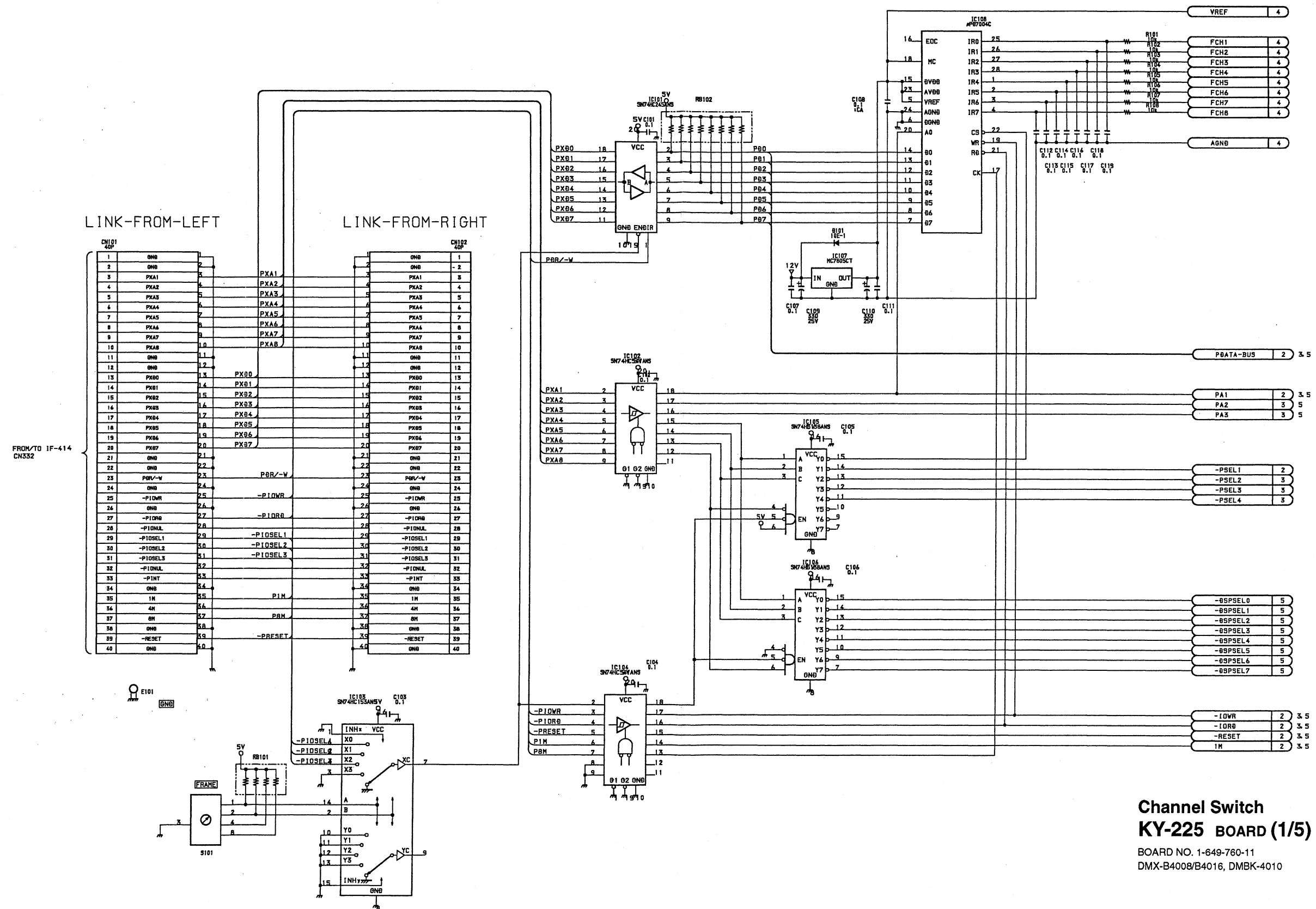
Analog Monitor Communication MOA-7A (for UC/EK) MOA-7B (for J) BOARD (3/5)

BOARD NO. 1-649-765-11
DMX-B4008/B4016

MOA-7A/7B (4/5)
DMX-B4008/B4016 CONSOLE



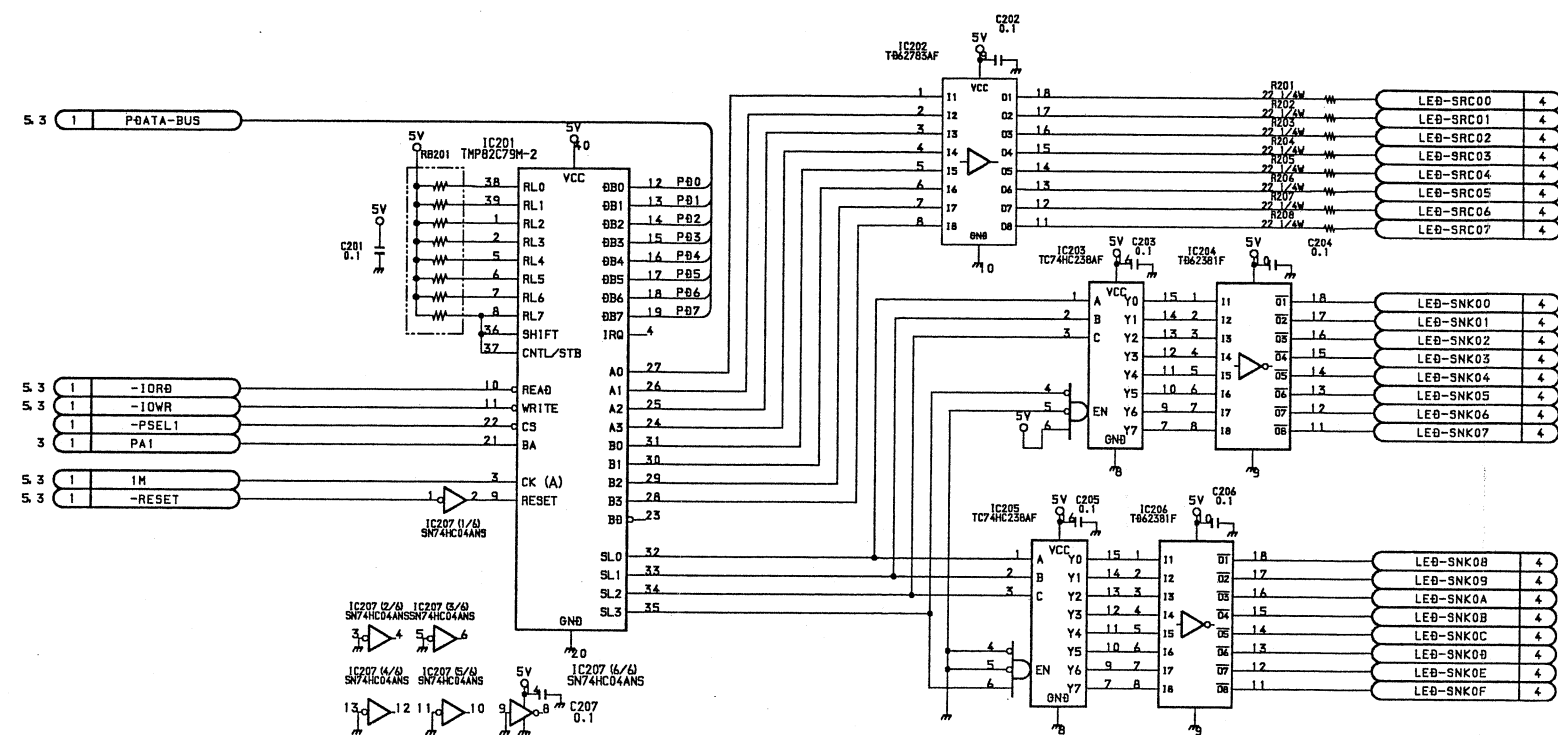




Channel Switch

KY-225 BOARD (1/5)

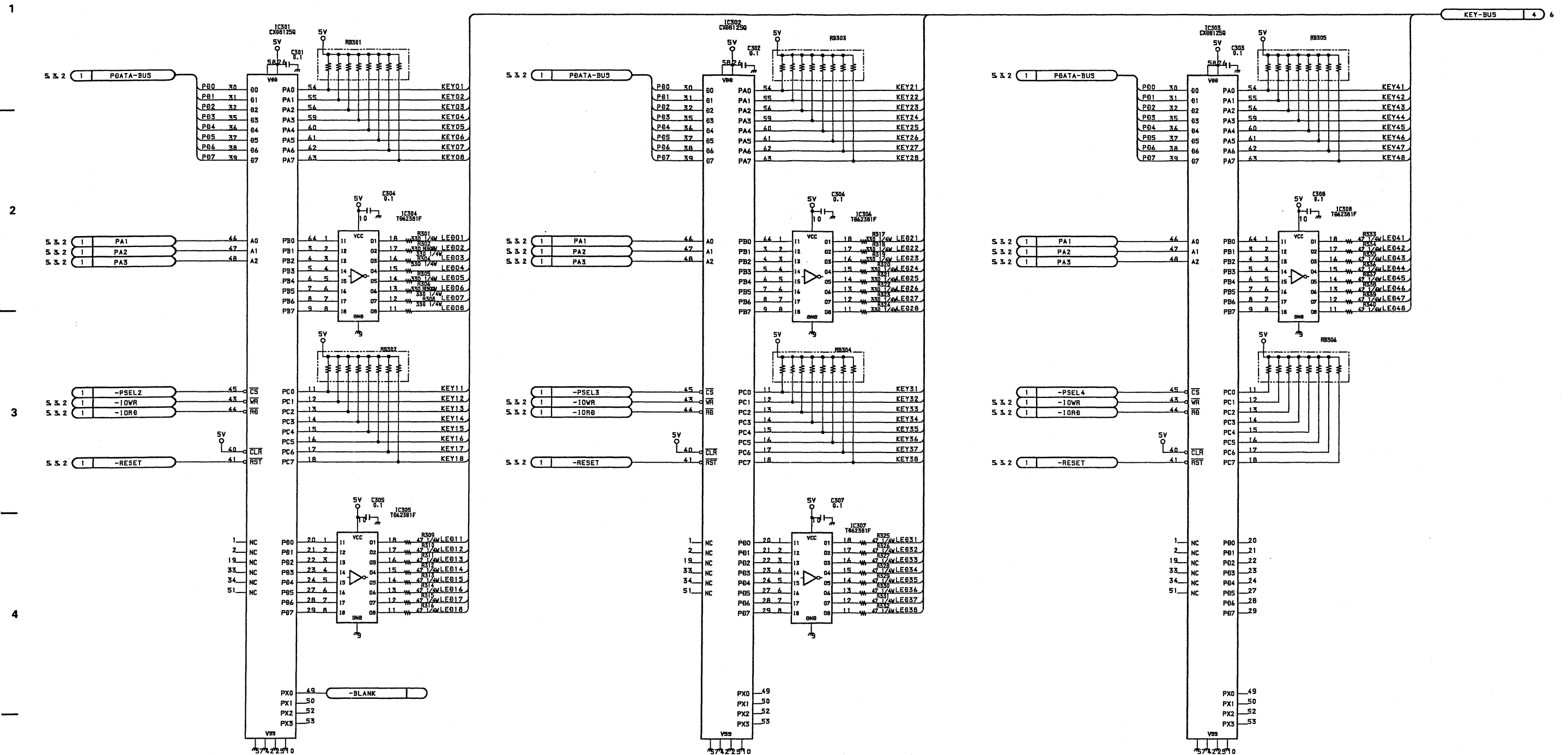
BOARD NO. 1-649-760-11
DMX-B4008/B4016, DMBK-4010



Channel Switch

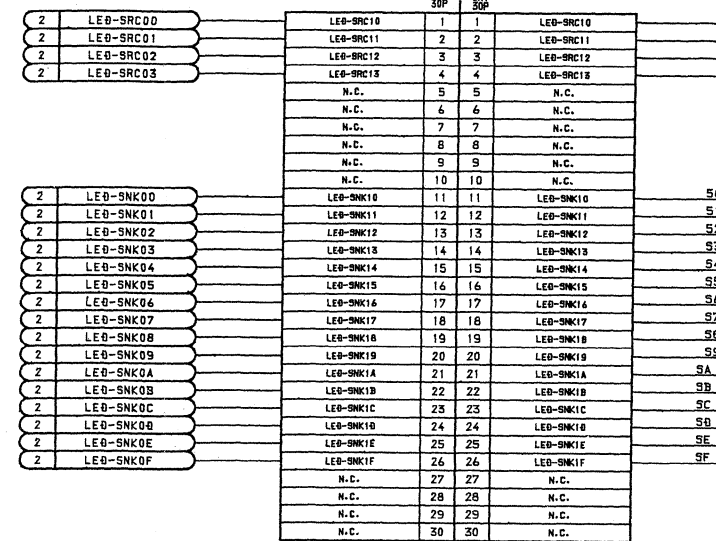
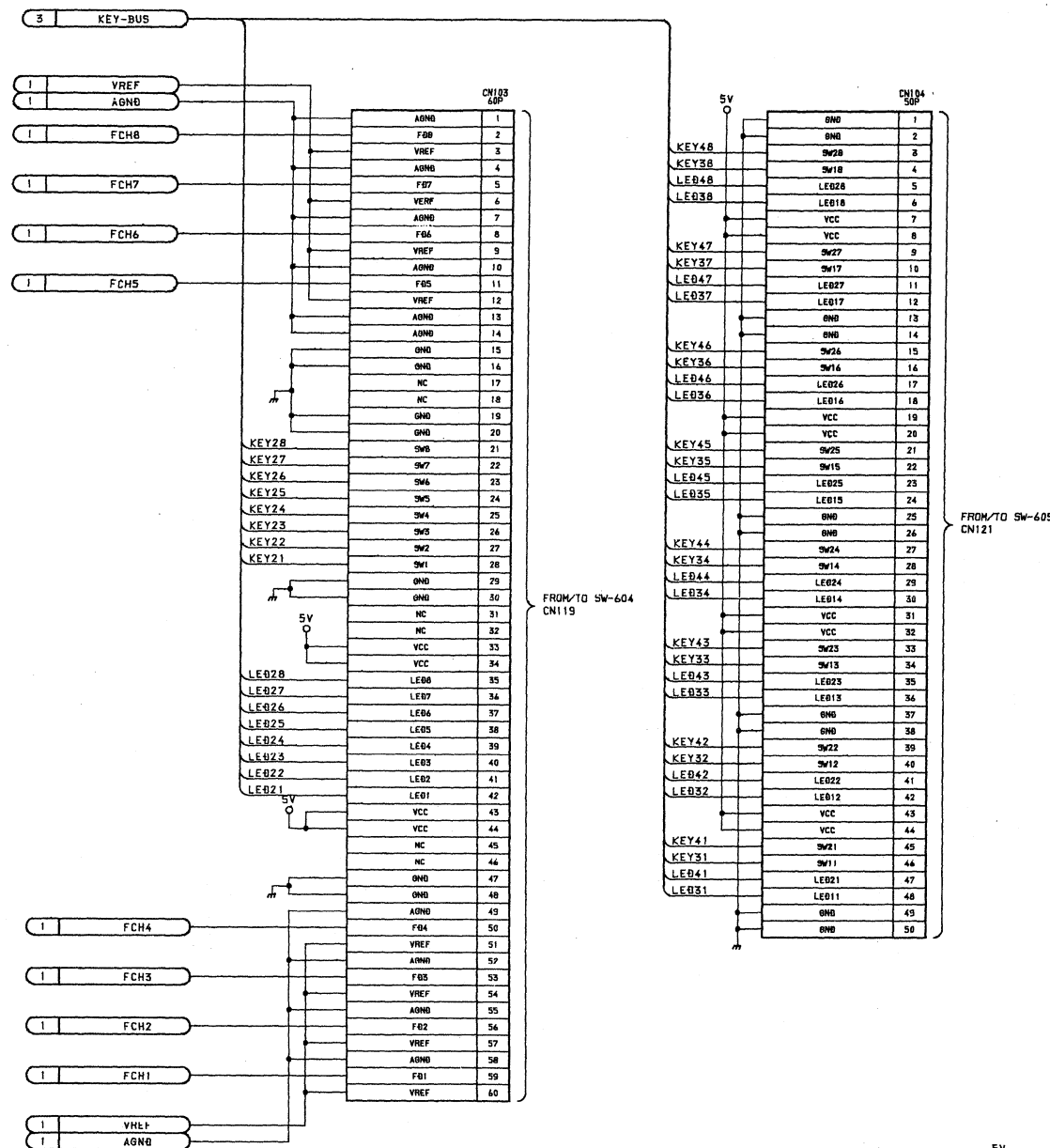
KY-225 BOARD (2/5)

BOARD NO. 1-649-760-11
DMX-B4008/B4016, DMBK-4010

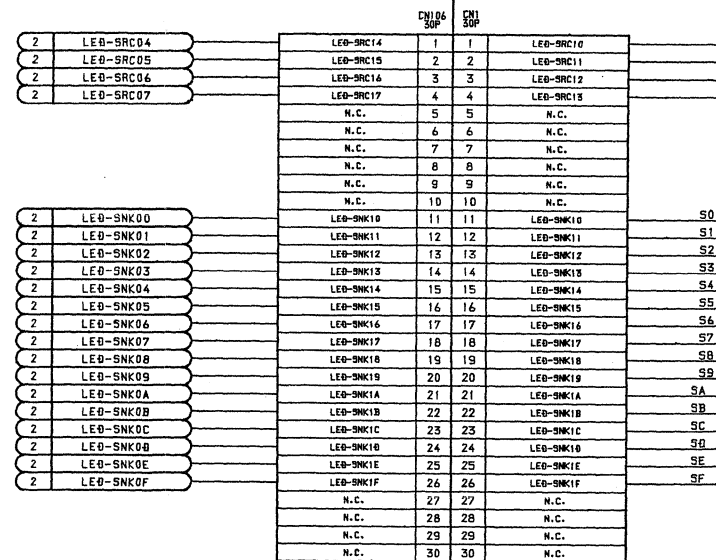


**Channel Switch
KY-225 BOARD (3/5)**

BOARD NO. 1-649-760-11
DMX-B4008/B4016, DMBK-4010

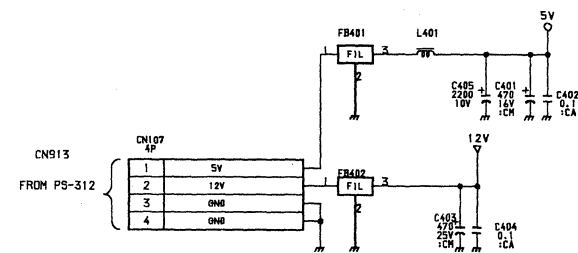


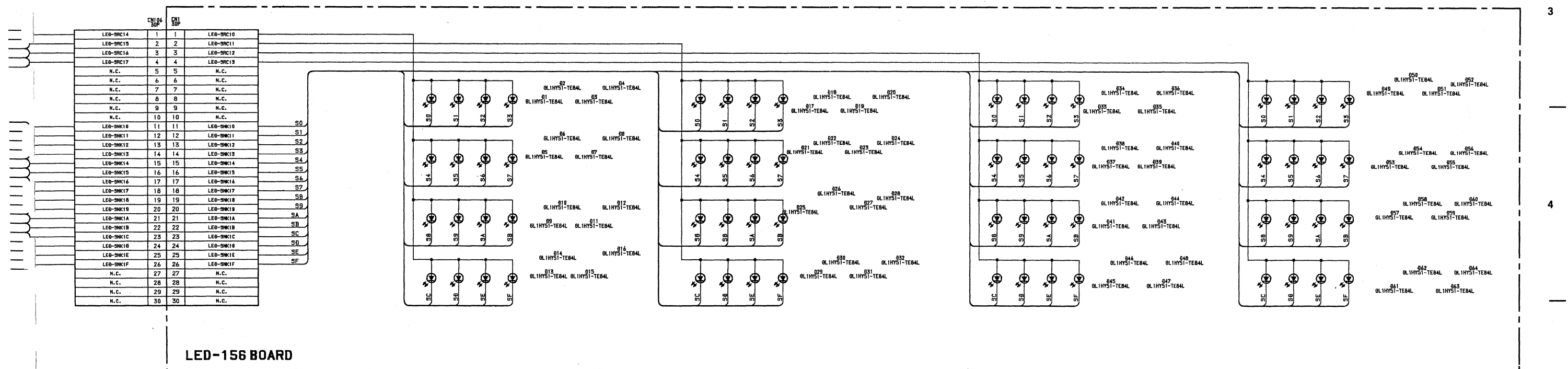
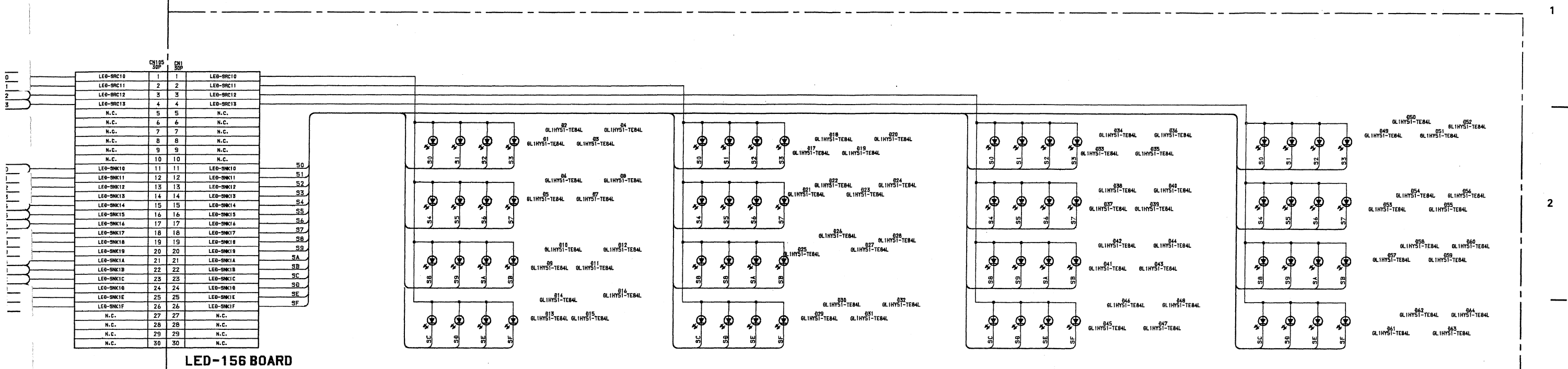
LED-156 BOARD



LED-156 BOARD

KY-225 BOARD (4/5)





5 BOARD (4/5)

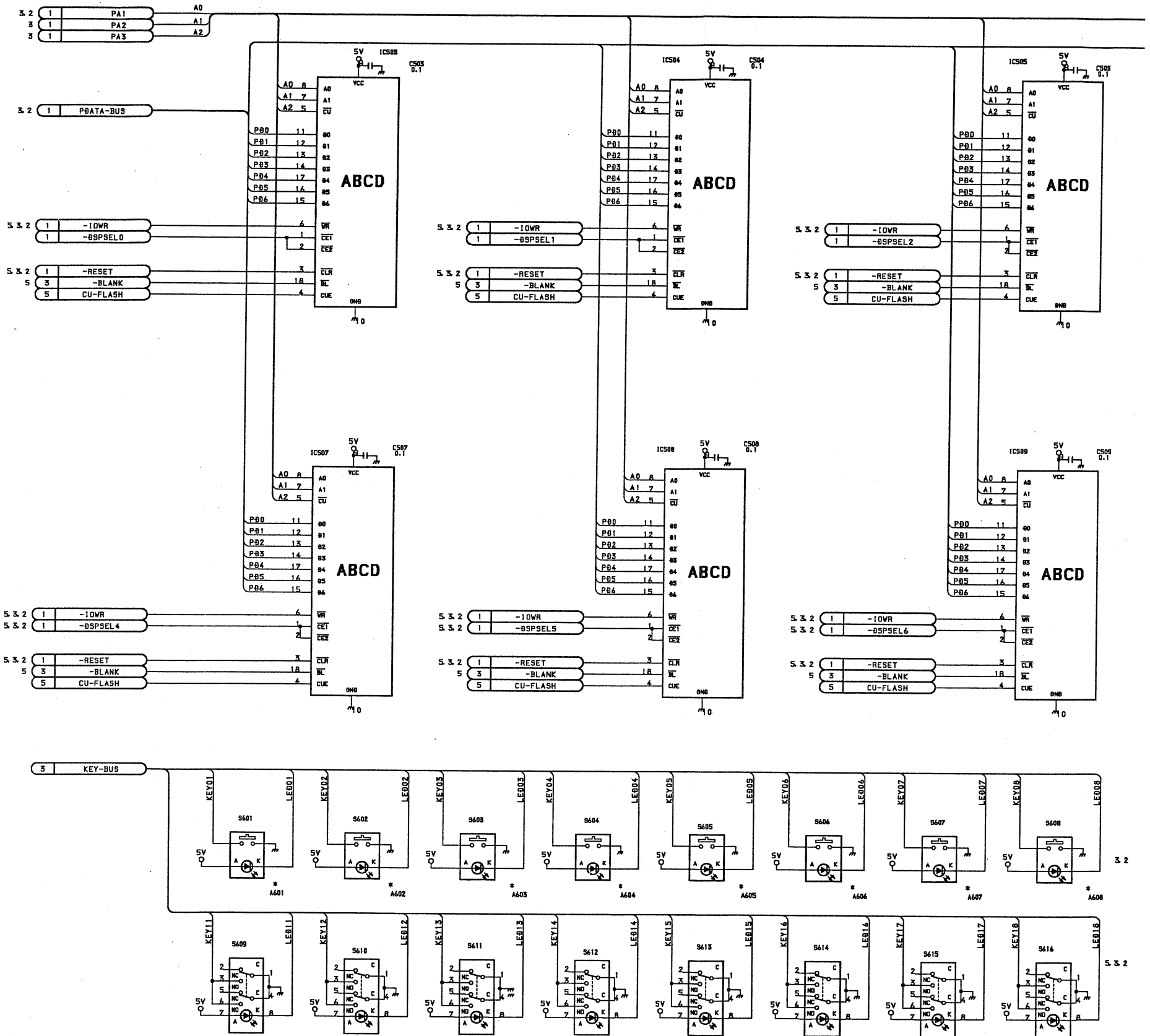
Channel Switch
KY-225 BOARD (4/5)

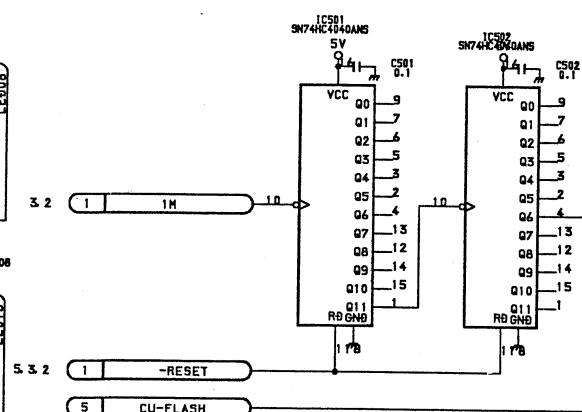
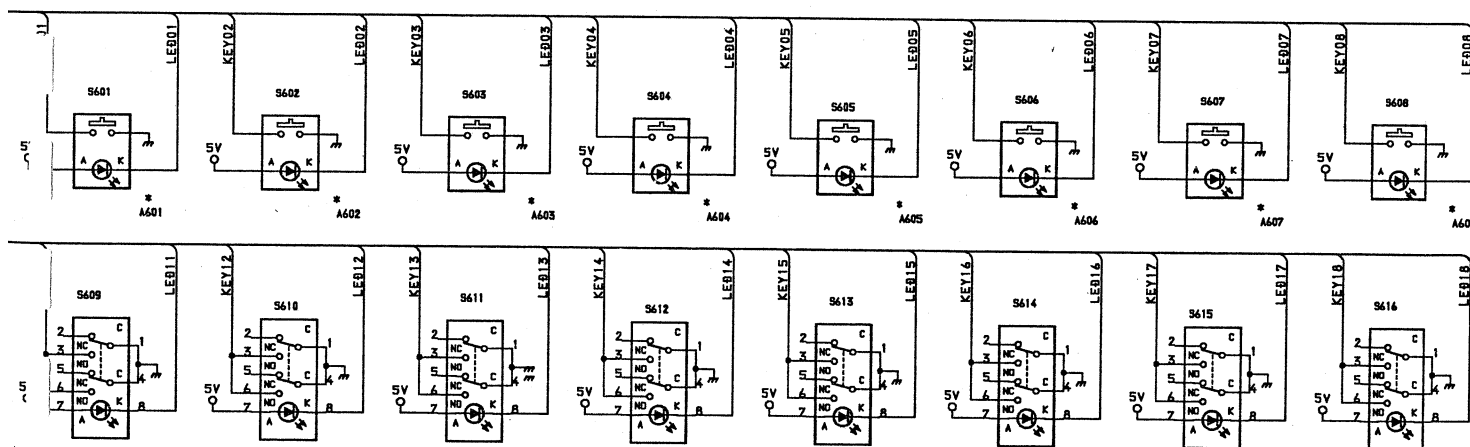
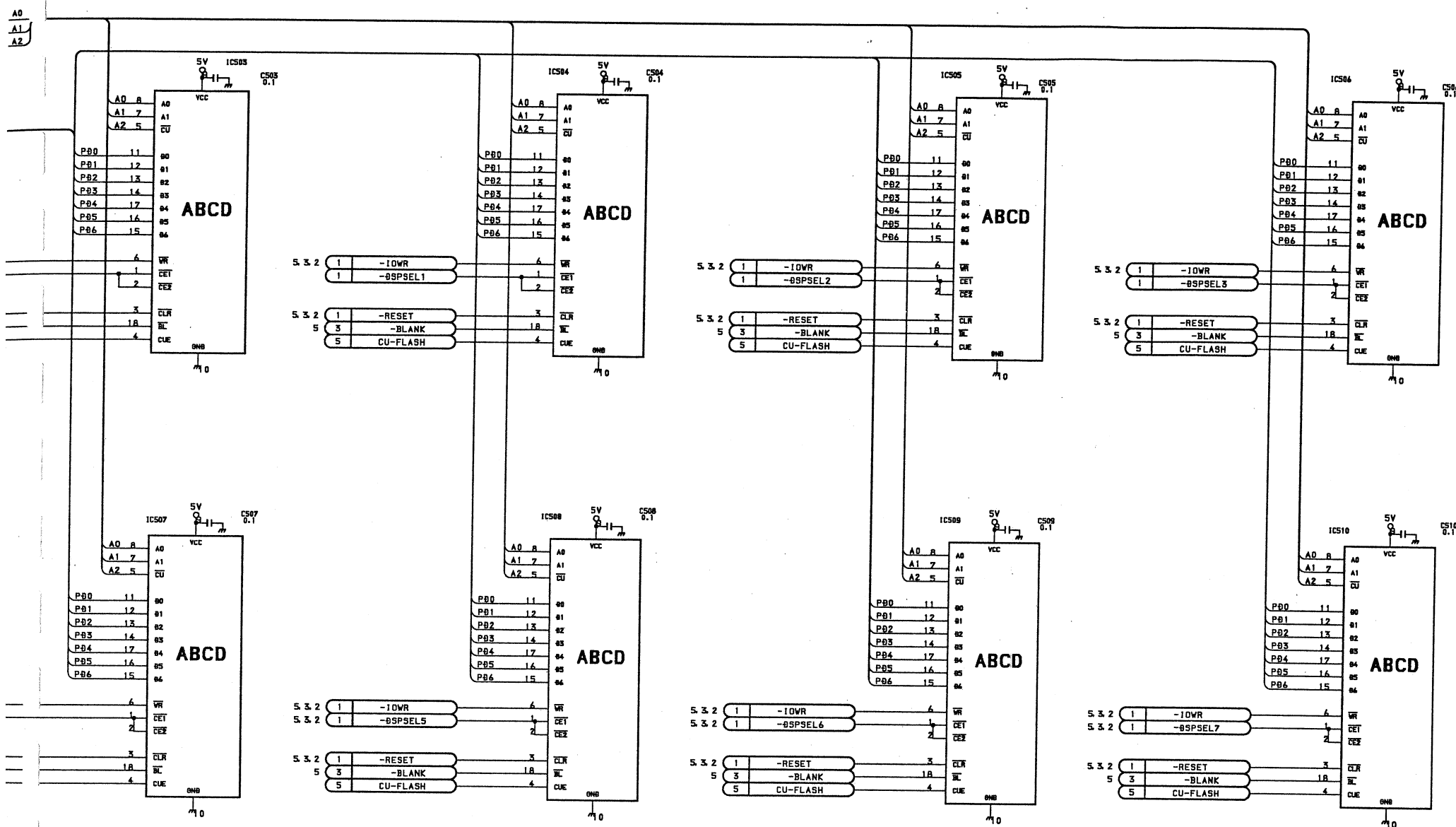
BOARD NO. 1-649-760-11

Channel Status LED
LED-156 BOARD

BOARD NO. 1-649-752-11
DMX-B4008/B4016, DMBK-4010

4-27

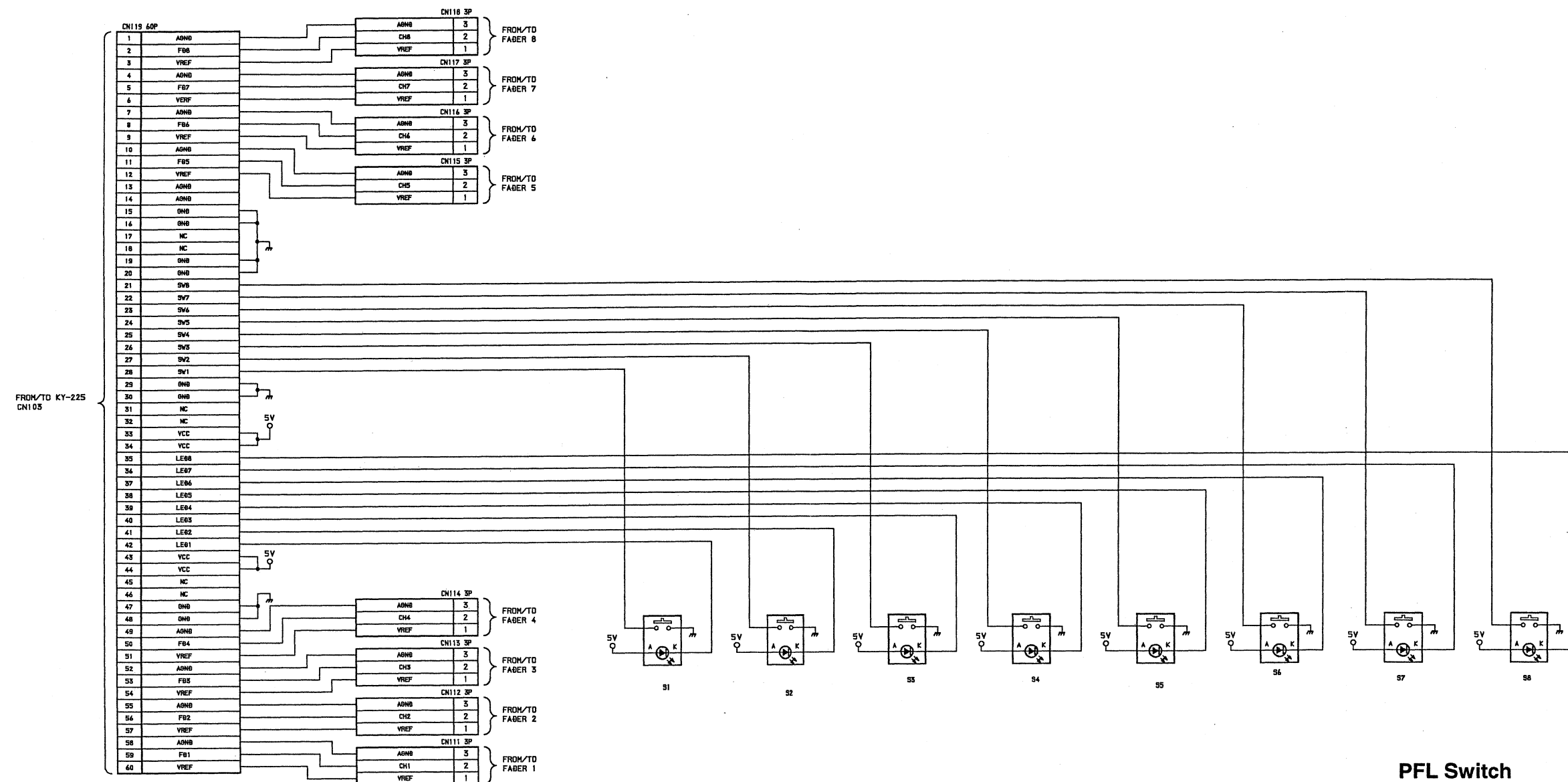




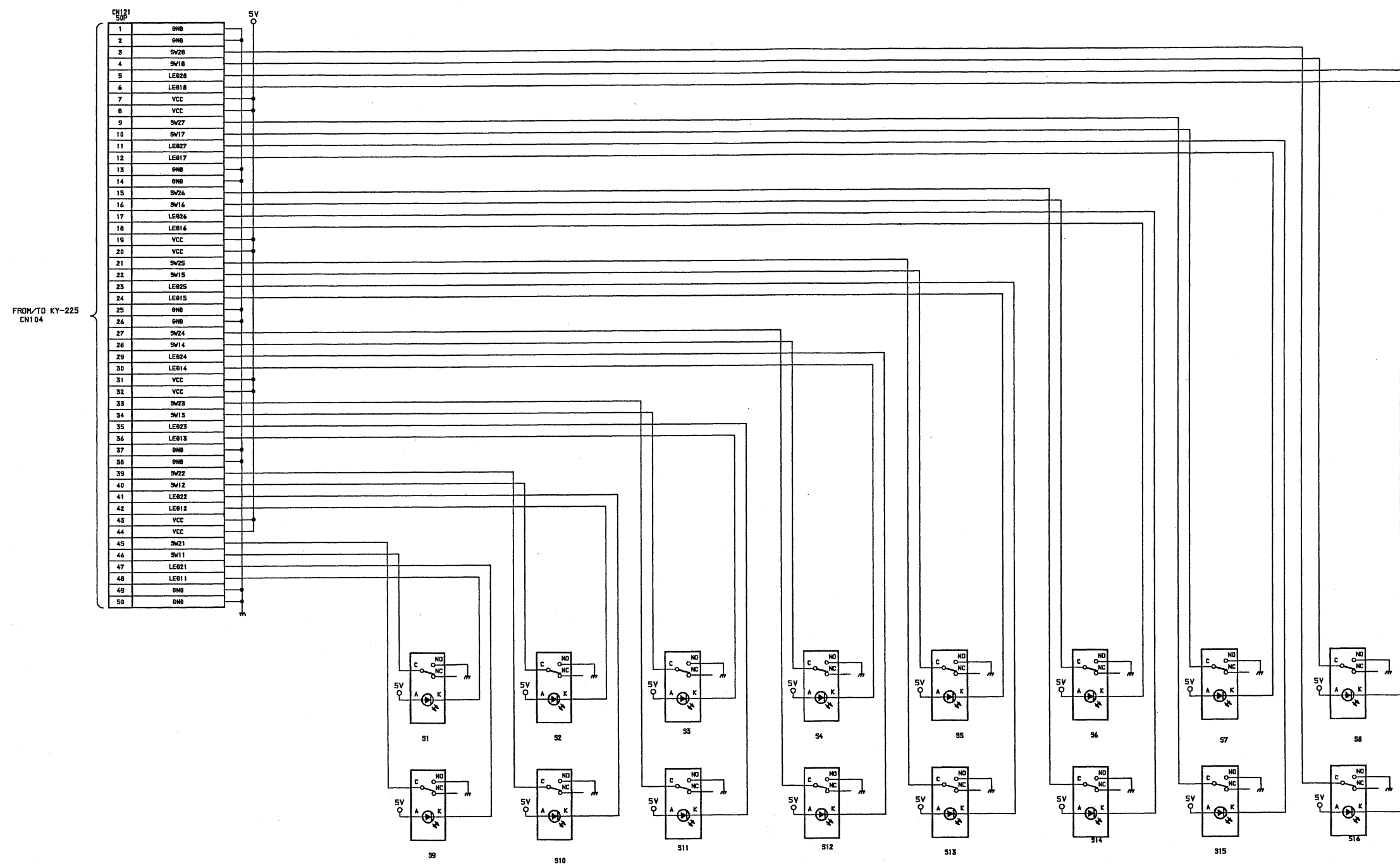
Channel Switch

KY-225 BOARD (5/5)

BOARD NO. 1-649-760-11
DMX-B4008/B4016, DMBK-4010

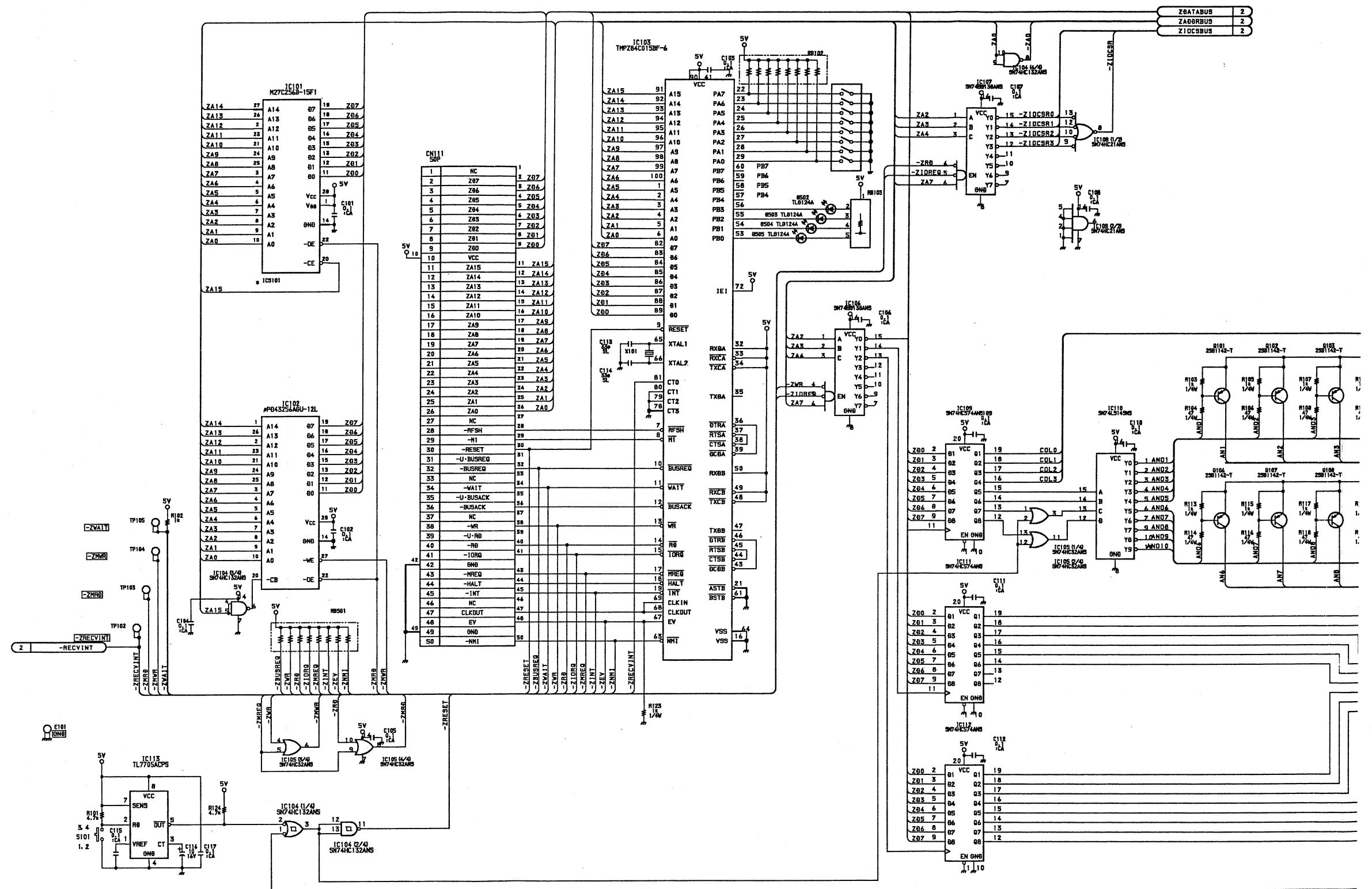


PFL Switch
SW-604 BOARD
BOARD NO. 1-649-761-11
DMX-B4008/B4016, DMBK-4010



**Start/Stop Switch
SW-605 BOARD**

BOARD NO. 1-649-762-11
DMX-B4008/B4016, DMBK-4010

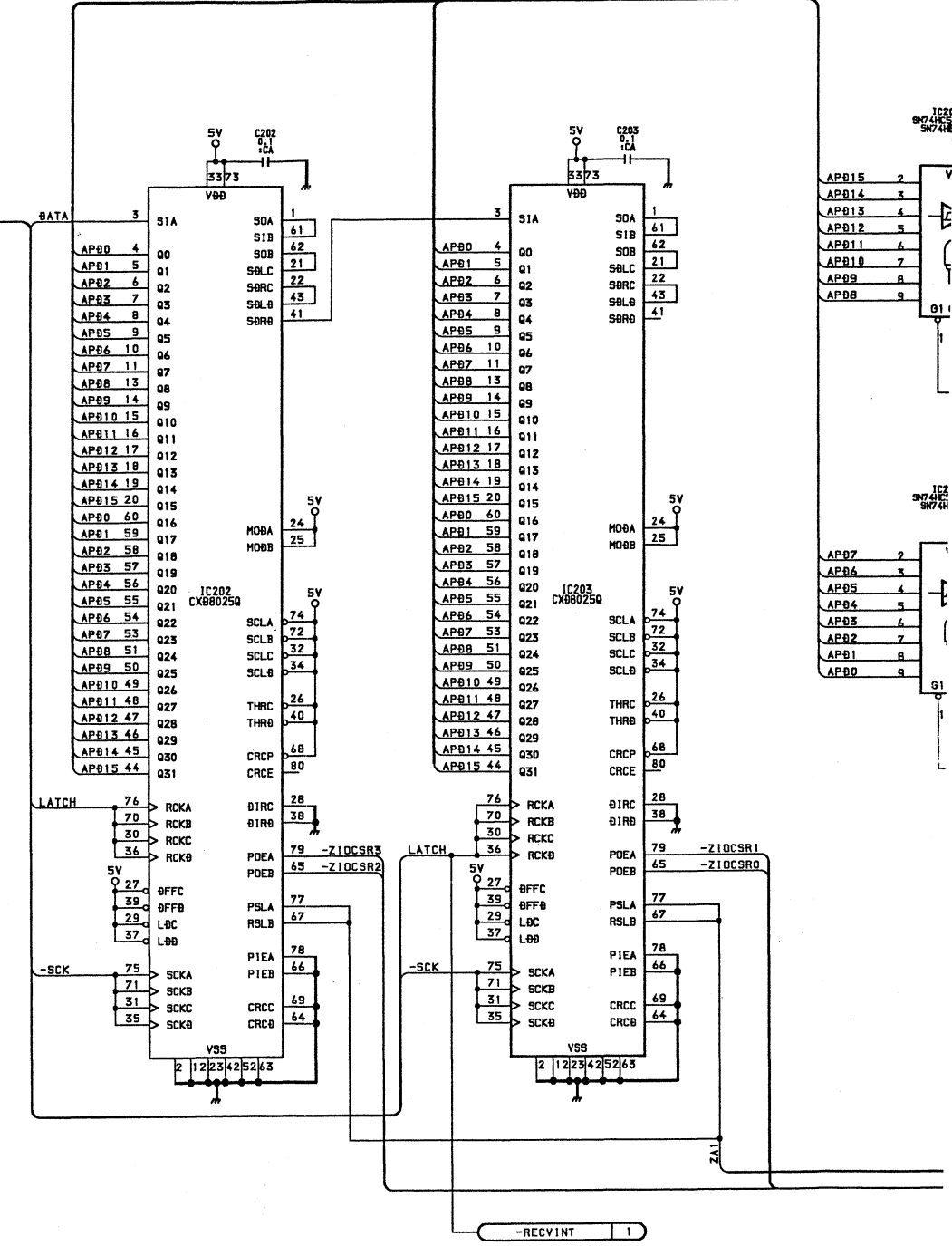
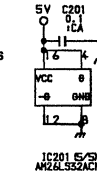
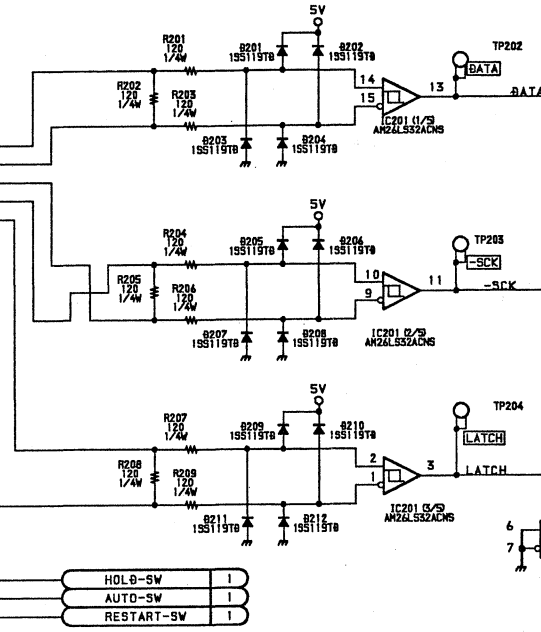


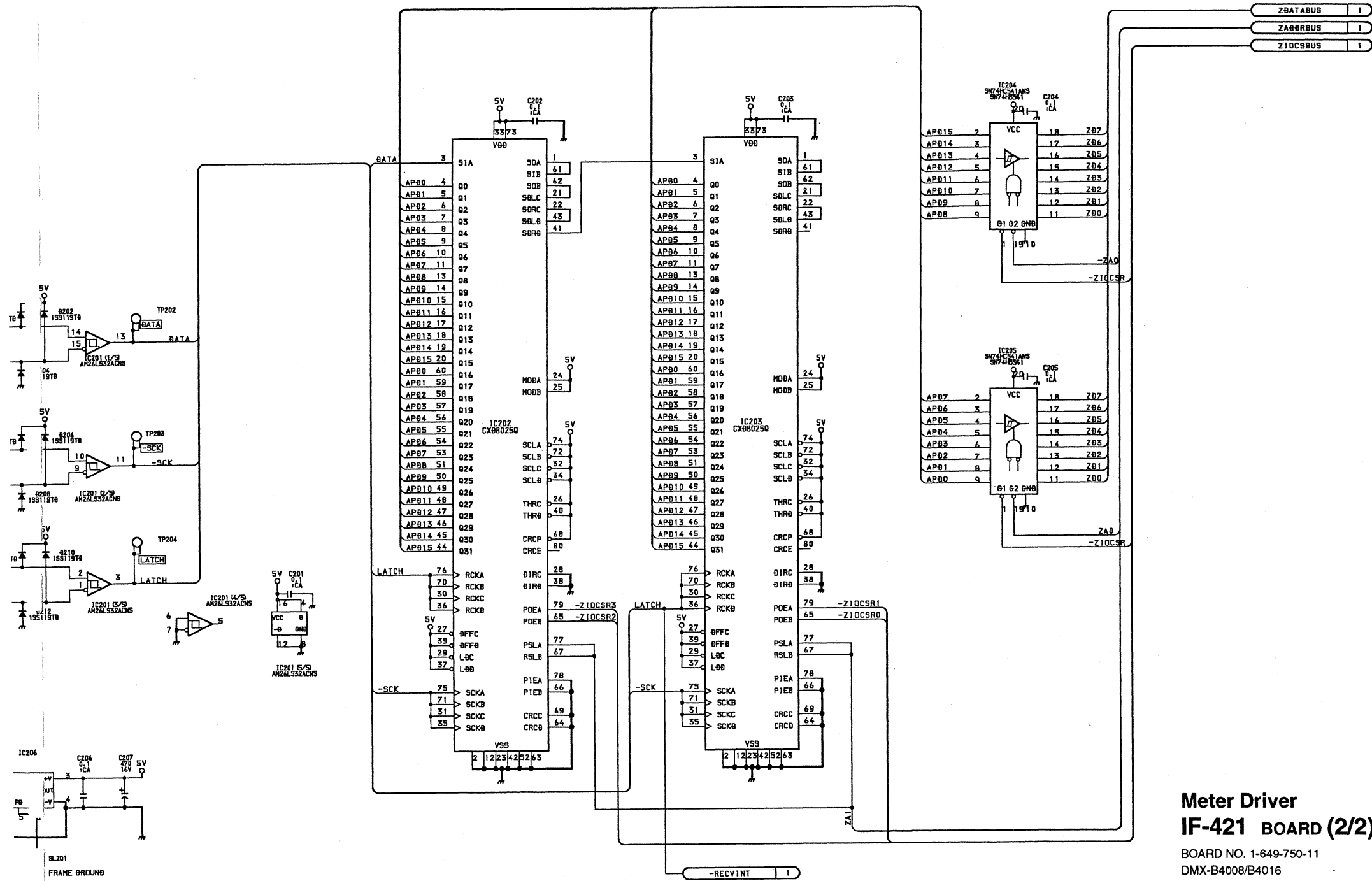


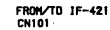
BOARD NO. 1-649-750-11
DMX-B4008/B4016

FROM/TO CPU-145
CN205

16	DATA+
15	DATA-
14	SHIFT CLOCK+
13	SHIFT CLOCK-
12	LATCH PULSE+
11	LATCH PULSE-
10	HOLD SW
9	AUTO SW
8	RESTART SW
7	NC
6	+12V
5	+12V
4	0.000
3	0.000
2	NC
1	NC







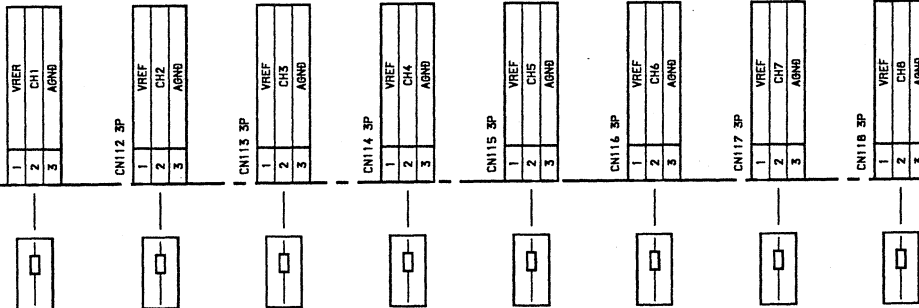


BOARD NO. 1-649-751-11
DMX-B4008/B4016

1	AGND	CN119 60P
2	F08	
3	VREF	
4	AGND	
5	F07	
6	VREF	
7	AGND	
8	F06	
9	VREF	
10	AGND	
11	F05	
12	VREF	
13	AGND	
14	F04	
15	VREF	
16	AGND	
17	NC	
18	NC	
19	AGND	
20	AGND	
21	AGND	
22	SV7	
23	SV6	
24	SV5	
25	SV4	
26	SV3	
27	SV2	
28	SV1	
29	AGND	
30	AGND	
31	NC	
32	NC	
33	VCC	
34	VCC	
35	VCC	
36	LE07	
37	LE06	
38	LE05	
39	LE04	
40	LE03	
41	LE02	
42	LE01	
43	VCC	
44	VCC	
45	VCC	
46	NC	
47	NC	
48	AGND	
49	AGND	
50	F04	
51	VREF	
52	AGND	
53	F05	
54	VREF	
55	AGND	
56	F02	
57	VREF	
58	AGND	
59	F01	
60	VREF	

SW-604 BOARD

FABER/PFL 1-8



1	AGND	CN121 50P
2	AGND	
3	SV28	
4	SV18	
5	LE028	
6	LE018	
7	VCC	
8	VCC	
9	SV27	
10	SV17	
11	LE027	
12	LE017	
13	AGND	
14	AGND	
15	NC	
16	SV26	
17	SV16	
18	LE026	
19	LE016	
20	VCC	
21	SV25	
22	SV15	
23	LE025	
24	LE015	
25	AGND	
26	AGND	
27	SV24	
28	SV14	
29	LE024	
30	LE014	
31	VCC	
32	VCC	
33	SV23	
34	SV13	
35	LE023	
36	LE013	
37	AGND	
38	AGND	
39	SV22	
40	SV12	
41	LE022	
42	LE012	
43	VCC	
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45	SV21	
46	SV11	
47	LE021	
48	LE011	
49	AGND	
50	AGND	

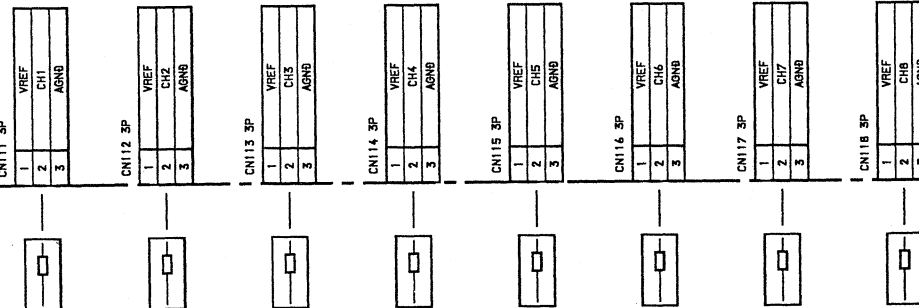
SW-605 BOARD

START/STOP 1-8

1	AGND	CN119 60P
2	F08	
3	VREF	
4	AGND	
5	F07	
6	VREF	
7	AGND	
8	F06	
9	VREF	
10	AGND	
11	F05	
12	VREF	
13	AGND	
14	AGND	
15	NC	
16	NC	
17	AGND	
18	AGND	
19	AGND	
20	AGND	
21	AGND	
22	SV7	
23	SV6	
24	SV5	
25	SV4	
26	SV3	
27	SV2	
28	SV1	
29	AGND	
30	AGND	
31	NC	
32	NC	
33	VCC	
34	VCC	
35	VCC	
36	LE07	
37	LE06	
38	LE05	
39	LE04	
40	LE03	
41	LE02	
42	LE01	
43	VCC	
44	VCC	
45	VCC	
46	NC	
47	NC	
48	AGND	
49	AGND	
50	F04	
51	VREF	
52	AGND	
53	F05	
54	VREF	
55	AGND	
56	F02	
57	VREF	
58	AGND	
59	F01	
60	VREF	

SW-604 BOARD

FABER/PFL 9-16



1	AGND	CN121 50P
2	AGND	
3	SV28	
4	SV18	
5	LE028	
6	LE018	
7	VCC	
8	VCC	
9	SV27	
10	SV17	
11	LE027	
12	LE017	
13	AGND	
14	AGND	
15	NC	
16	SV26	
17	SV16	
18	LE026	
19	LE016	
20	VCC	
21	SV25	
22	SV15	
23	LE025	
24	LE015	
25	AGND	
26	AGND	
27	SV24	
28	SV14	
29	LE024	
30	LE014	
31	VCC	
32	VCC	
33	SV23	
34	SV13	
35	LE023	
36	LE013	
37	AGND	
38	AGND	
39	SV22	
40	SV12	
41	LE022	
42	LE012	
43	VCC	
44	VCC	
45	SV21	
46	SV11	
47	LE021	
48	LE011	
49	AGND	
50	AGND	

SW-605 BOARD

START/STOP 9-16

1	AGND	CN105 60P
2	F08	
3	VREF	
4	AGND	
5	F07	
6	VREF	
7	AGND	
8	F06	
9	VREF	
10	AGND	
11	AGND	
12	VREF	
13	AGND	
14	AGND	
15	NC	
16	NC	
17	NC	
18	NC	
19	NC	
20	NC	
21	NC	
22	NC	
23	SV7	
24	SV6	
25	SV5	
26	SV4	
27	SV3	
28	SV2	
29	SV1	
30	AGND	
31	NC	
32	VCC	
33	VCC	
34	VCC	
35	LE07	
36	LE06	
37	LE05	
38	LE04	
39	LE03	
40	LE02	
41	LE01	
42	VCC	
43	VCC	
44	VCC	
45	NC	
46	NC	
47	NC	
48	AGND	
49	AGND	
50	F04	
51	VREF	
52	AGND	
53	F05	
54	VREF	
55	AGND	
56	F02	
57	VREF	
58	AGND	
59	F01	
60	VREF	

LED-156 BOARD

TALLY DISPLAY

1	LED-SRC10	CN1 30P
2	LED-SRC11	
3	LED-SRC12	
4	LED-SRC13	
5	N.C.	
6	N.C.	
7	N.C.	
8	N.C.	
9	N.C.	
10	N.C.	
11	N.C.	
12	LED-SNK10	
13	LED-SNK11	
14	LED-SNK12	
15	LED-SNK13	
16	LED-SNK14	
17	LED-SNK15	
18	LED-SNK16	
19	LED-SNK17	
20	LED-SNK18	
21	LED-SNK19	
22	LED-SNK20	
23	LED-SNK21	
24	LED-SNK22	
25	LED-SNK23	
26	LED-SNK24	
27	LED-SNK25	
28	LED-SNK26	
29	LED-SNK27	
30	N.C.	

1	AGND	CN104 50P
2	AGND	
3	SV28	
4	SV18	
5	LE028	
6	LE018	
7	VCC	
8	VCC	
9	SV27	
10	SV17	
11	LE027	
12	LE017	
13	AGND	
14	AGND	
15	NC	
16	SV26	
17	SV16	
18	LE026	
19	LE016	
20	VCC	
21	SV25	
22	SV15	
23	LE025	
24	LE015	
25	AGND	
26	AGND	
27	SV24	
28	SV14	
29	LE024	
30	LE014	
31	VCC	
32	VCC	
33	SV23	
34	SV13	
35	LE023	
36	LE013	
37	AGND	
38	AGND	
39	SV22	
40	SV12	
41	LE022	
42	LE012	
43	VCC	
44	VCC	
45	SV21	
46	SV11	
47	LE021	
48	LE011	
49	AGND	
50	AGND	

LED-156 BOARD

TALLY DISPLAY

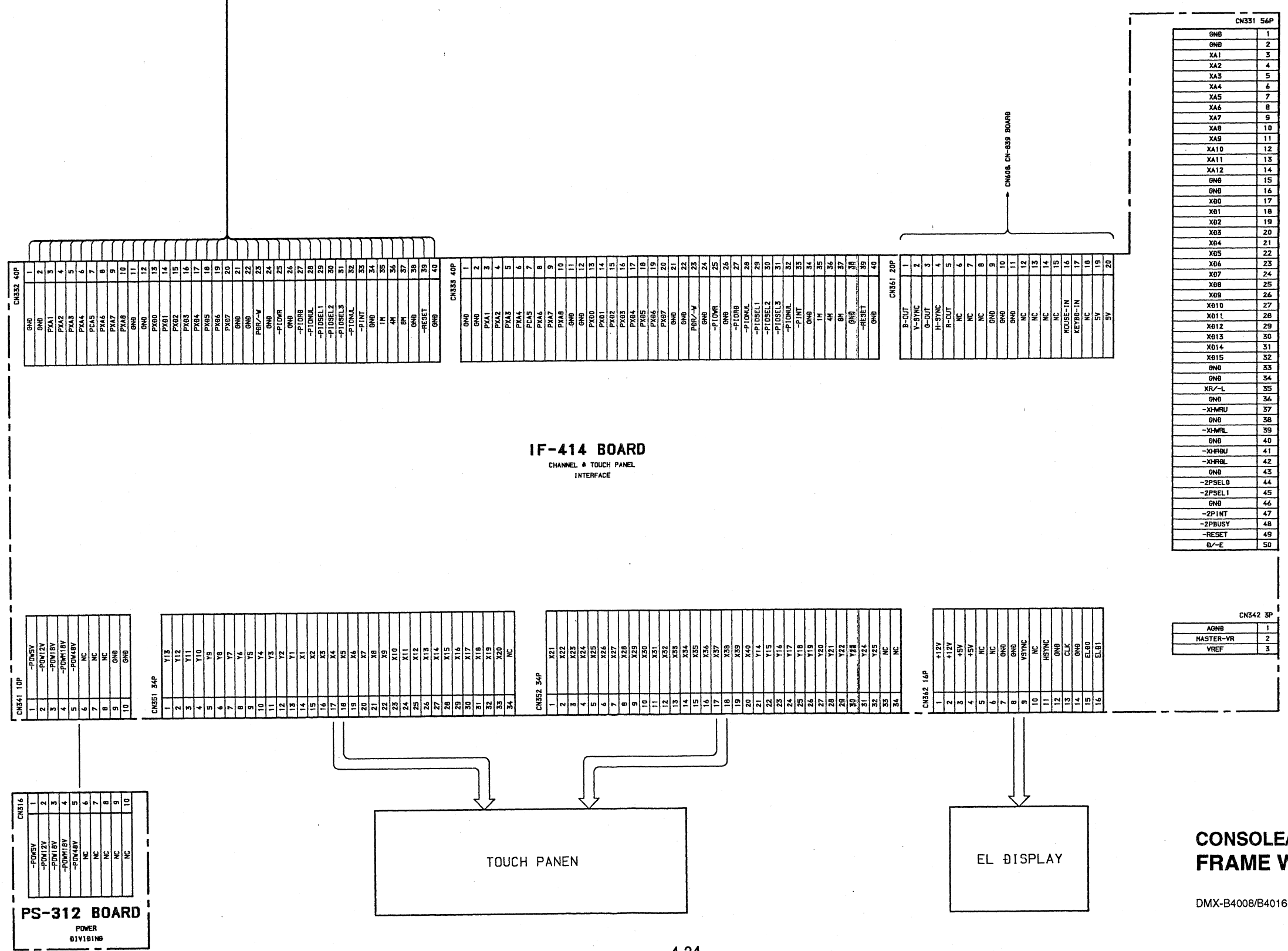
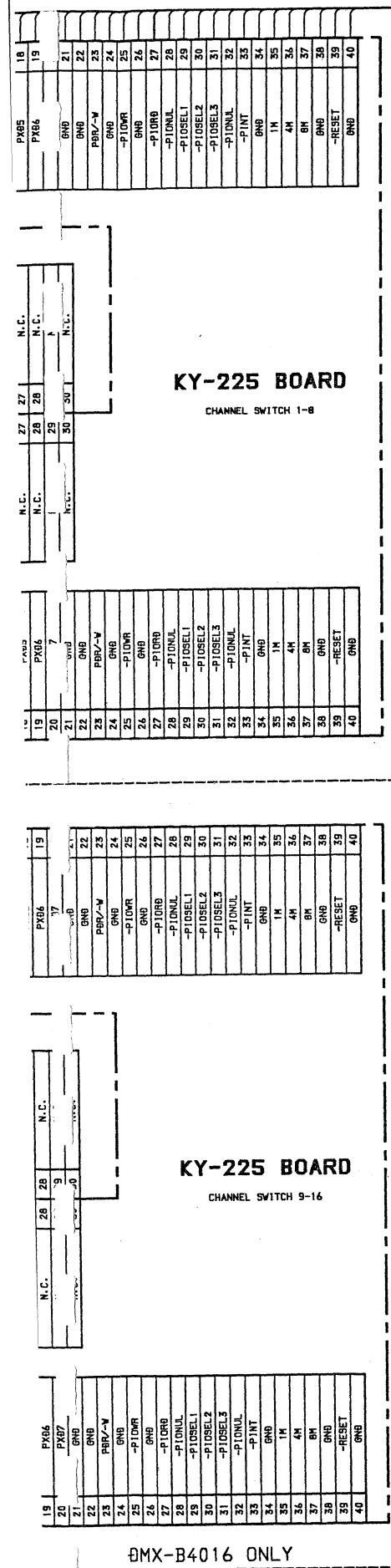
1	LED-SRC10	CN1 30P
2	LED-SRC11	
3	LED-SRC12	
4	LED-SRC13	
5	N.C.	
6	N.C.	
7	N.C.	
8	N.C.	
9	N.C.	
10	N.C.	
11	N.C.	
12	LED-SNK10	
13	LED-SNK11	
14	LED-SNK12	
15	LED-SNK13	
16	LED-SNK14	
17	LED-SNK15	
18	LED-SNK16	
19	LED-SNK17	
20	LED-SNK18	
21	LED-SNK19	
22	LED-SNK20	
23	LED-SNK21	
24	LED-SNK22	
25	LED-SNK23	
26	LED-SNK24	
27	LED-SNK25	
28	LED-SNK26	
29	LED-SNK27	
30	N.C.	

1	AGND	CN104 50P
2	AGND	
3	SV28	
4	SV18	
5	LE028	
6	LE018	
7	VCC	
8	VCC	
9	SV27	
10	SV17	
11	LE027	
12	LE017	
13	AGND	
14	AGND	
15	NC	
16	SV26	
17	SV16	
18	LE026	
19	LE016	
20	VCC	
21	SV25	
22	SV15	
23	LE025	
24	LE015	
25	AGND	
26	AGND	
27	SV24	
28	SV14	
29	LE024	
30	LE014	
31	VCC	
32	VCC	
33	SV23	
34	SV13	
35	LE023	
36	LE013	
37	AGND	
38	AGND	
39	SV22	
40	SV12	
41	LE022	
42	LE012	
43	VCC	
44	VCC	
45	SV21	
46	SV11	
47	LE021	
48	LE011	
49	AGND	
50	AGND	

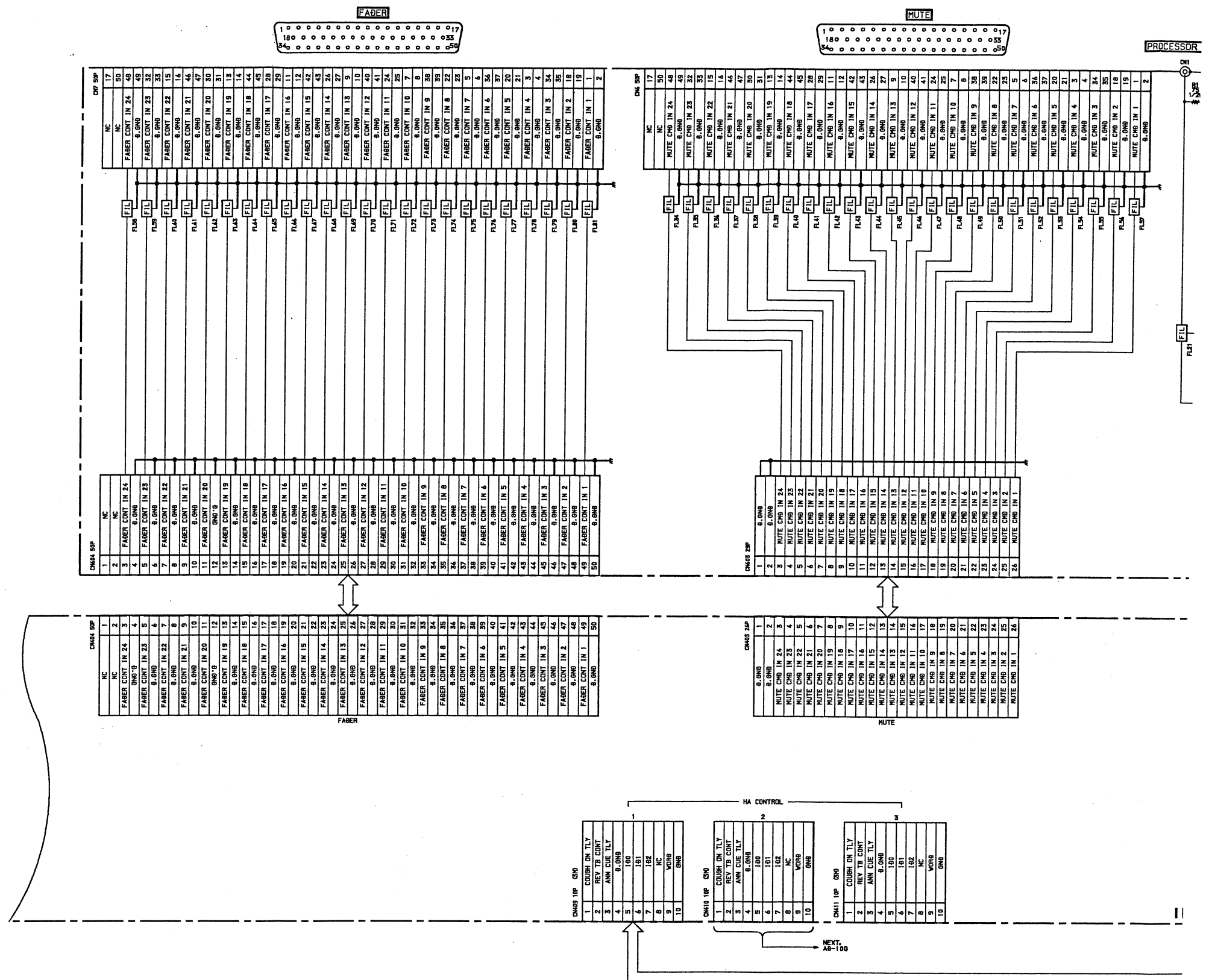
LED-156 BOARD

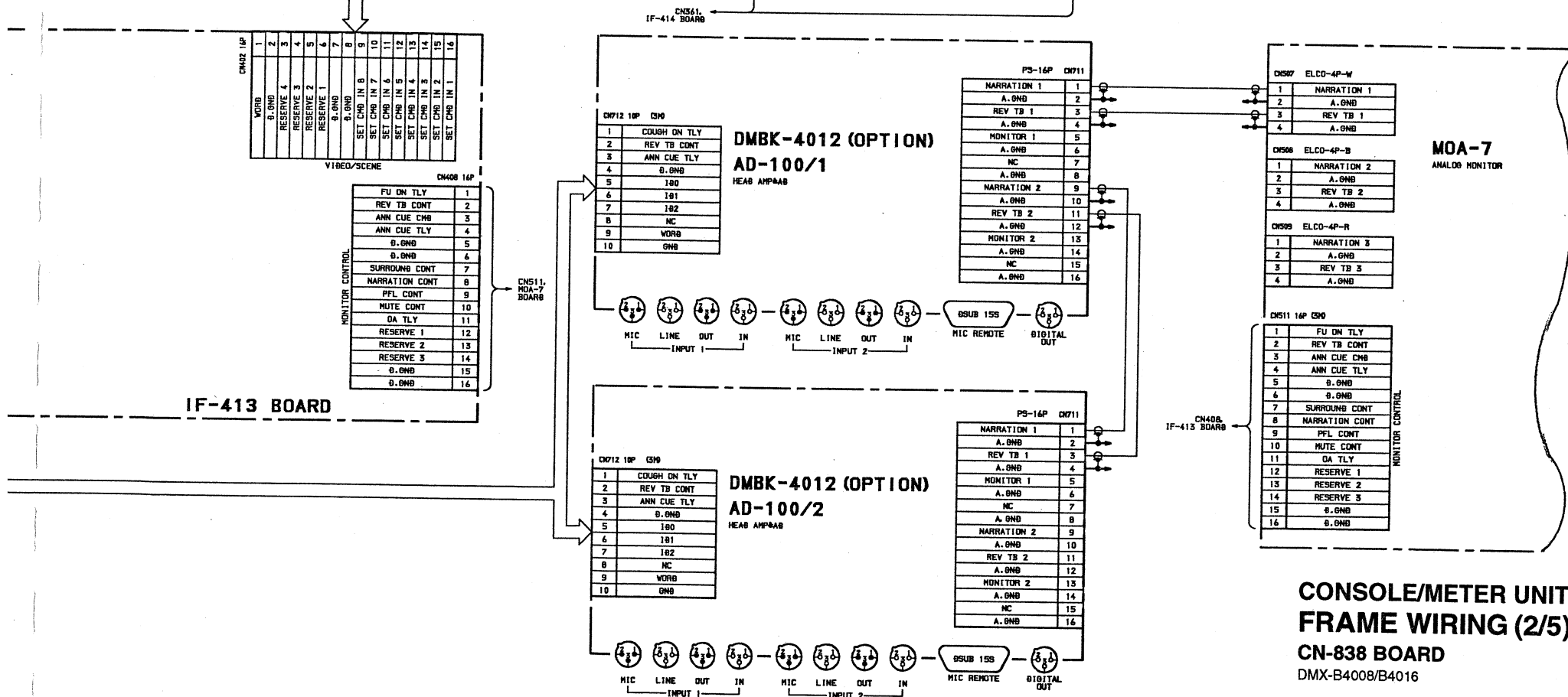
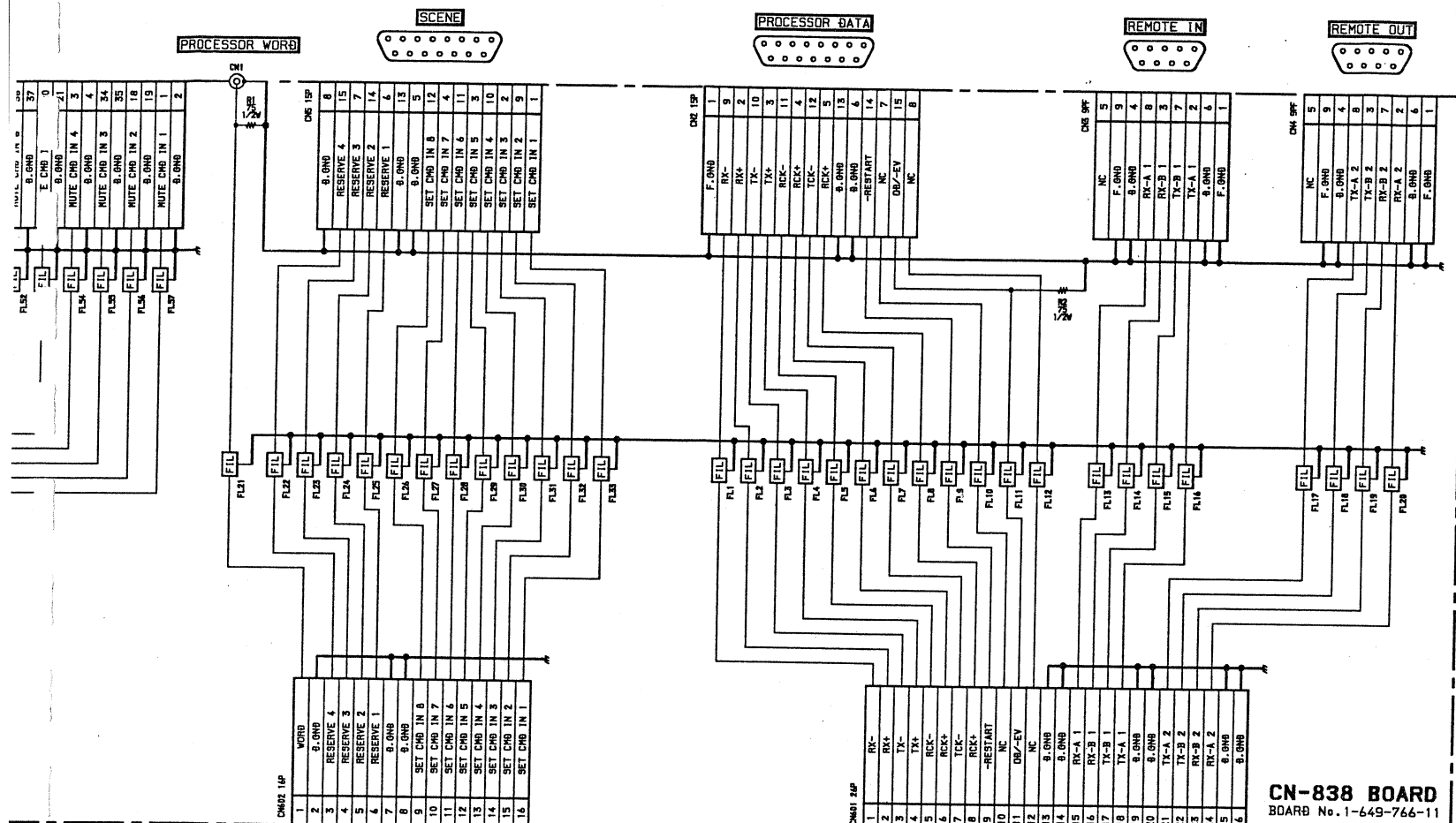
TALLY DISPLAY

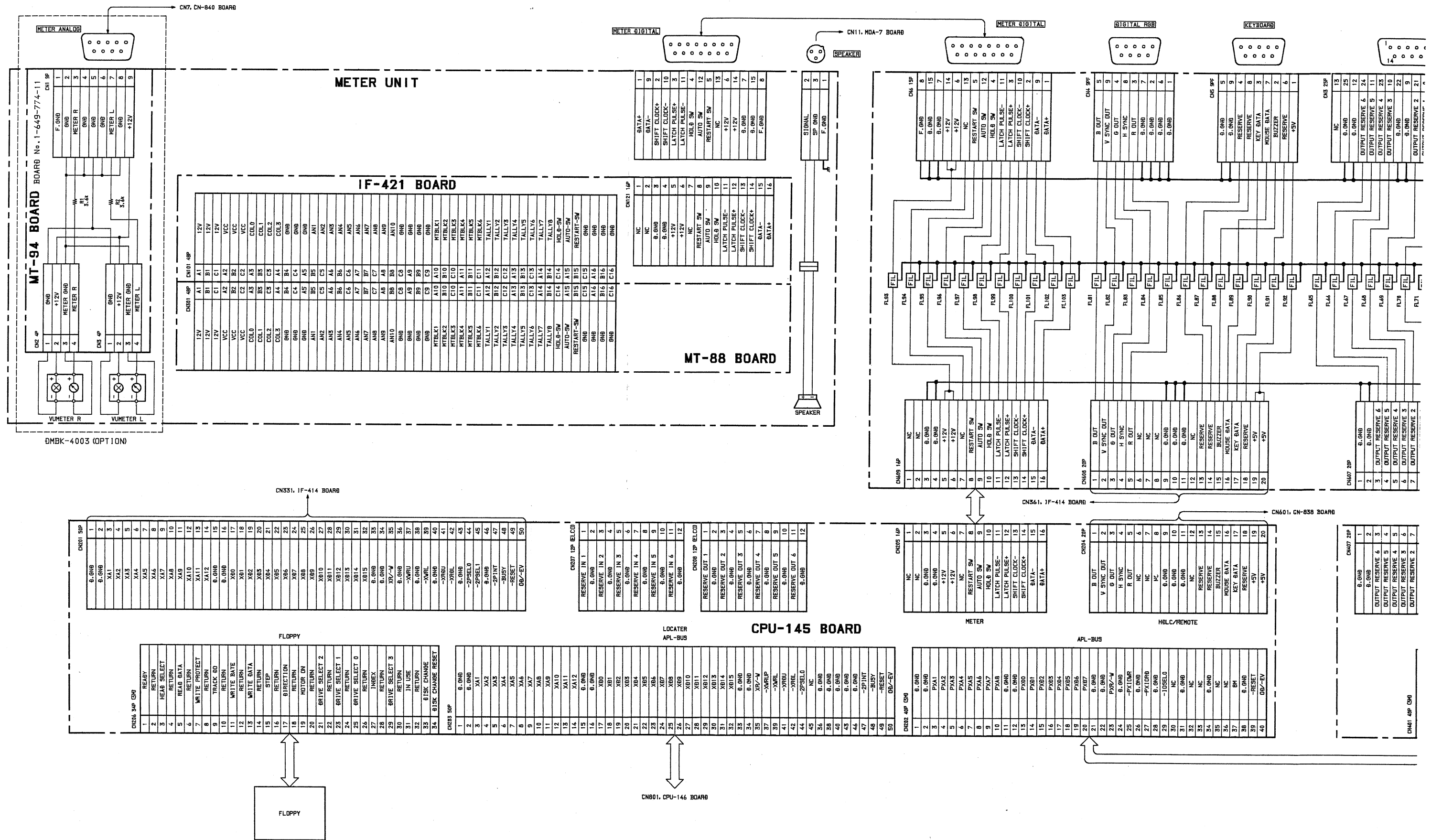
1	LED-SRC10	CN1 30P
2	LED-SRC11	
3	LED-SRC12	
4	LED-SRC13	
5	N.C.	
6	N.C.	
7	N.C.	
8	N.C.	
9	N.C.	
10	N.C.	
11	N.C.	
12	LED-SNK10	
13	LED-SNK11	
14	LED-SNK12	
15	LED-SNK13	
16	LED-SNK14	
17	LED-SNK15	
18	LED-SNK16	
19	LED-SNK17	
20	LED-SNK18	
21	LED-SNK19	
22	LED-SNK20	
23	LED-SNK21	
24	LED-SNK22	
25	LED-SNK23	
26	LED-SNK24	
27	LED-SNK25	
28	LED-SNK26	
29	LED-SNK27	

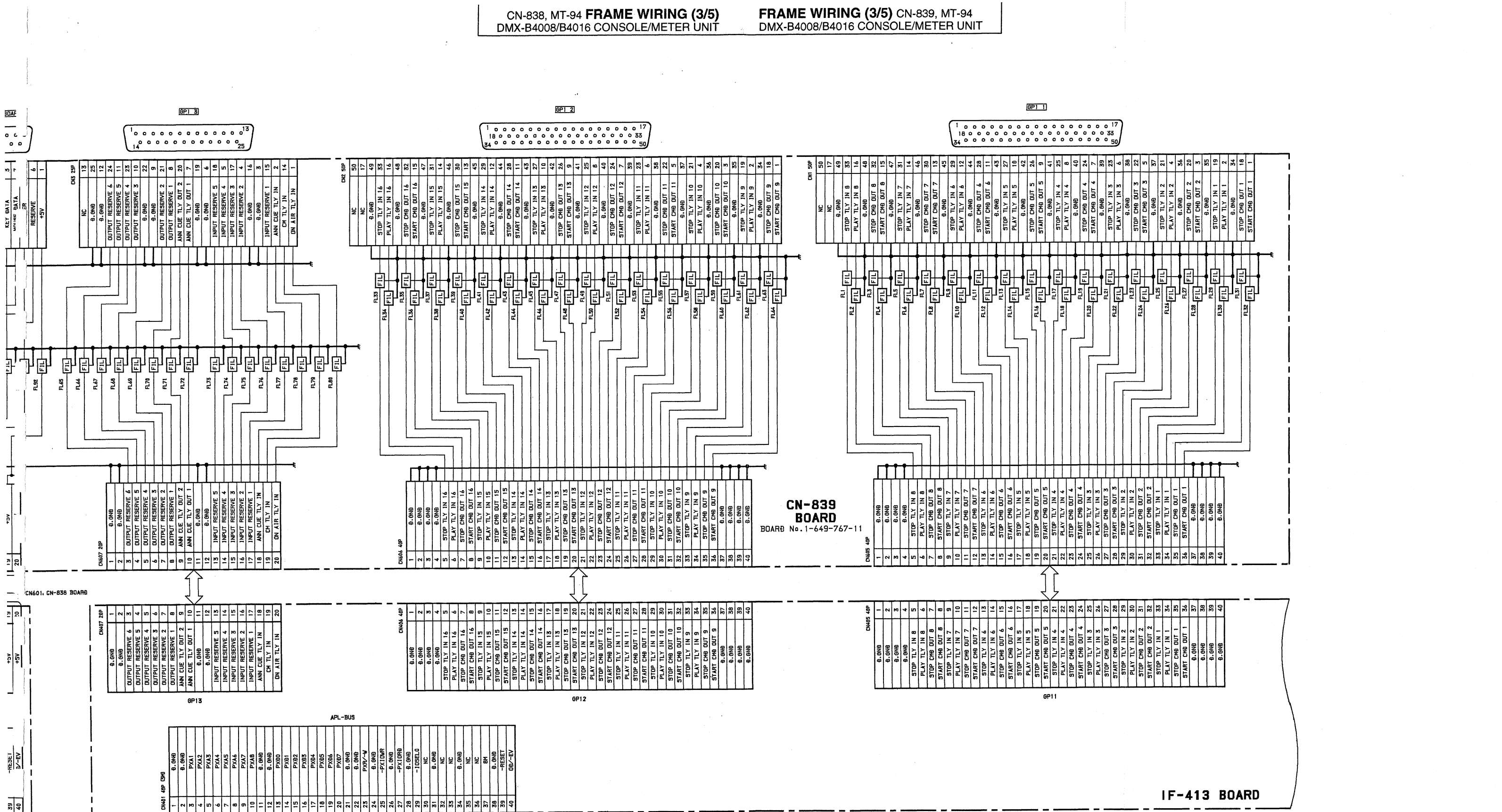


CONSOLE/METER UNIT
FRAME WIRING (1/5)
DMX-B4008/B4016

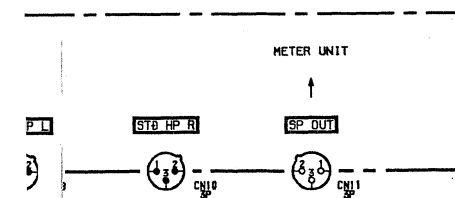
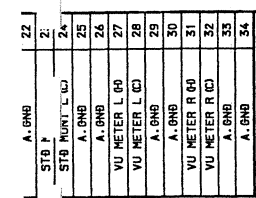
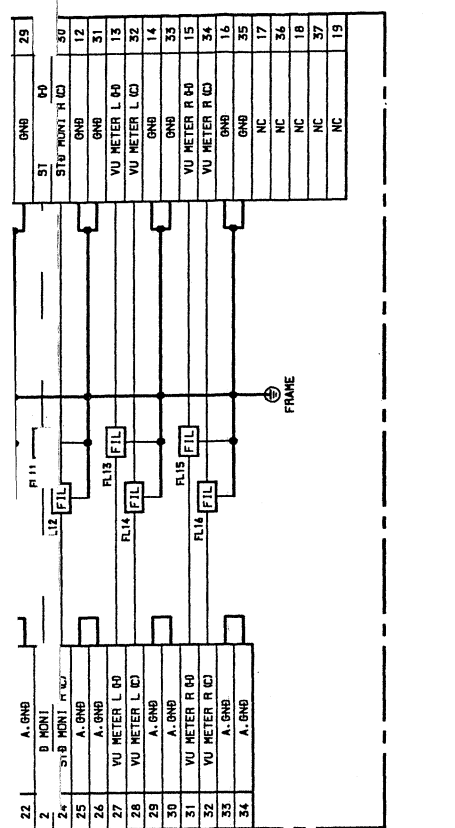
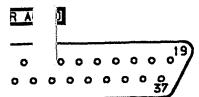




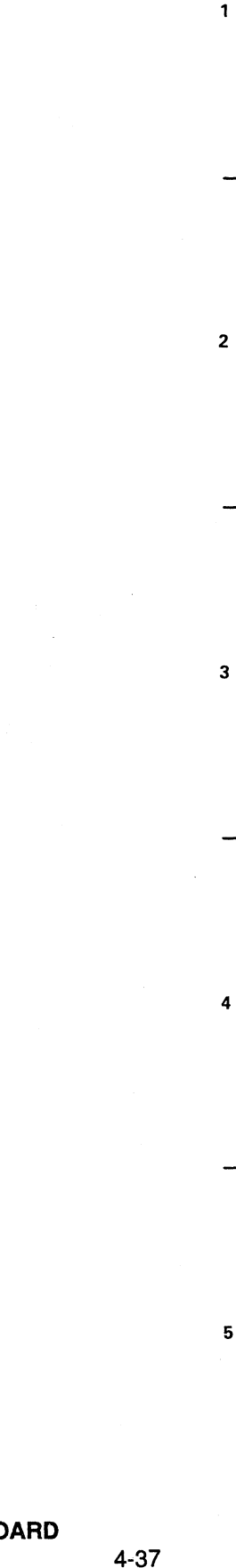
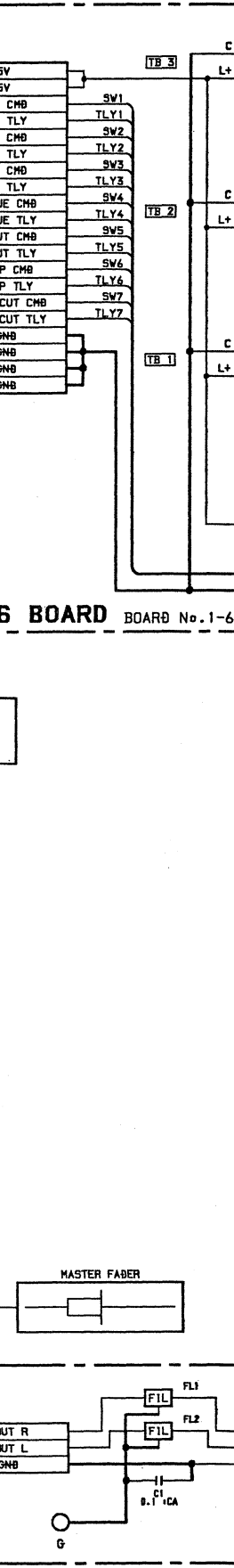
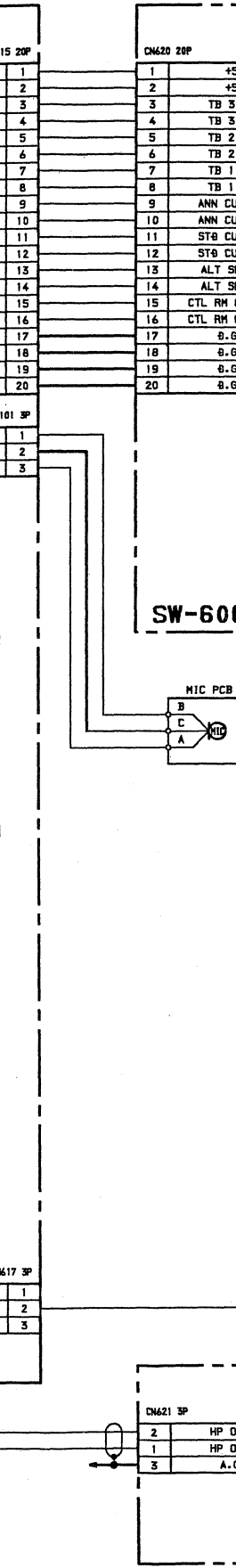
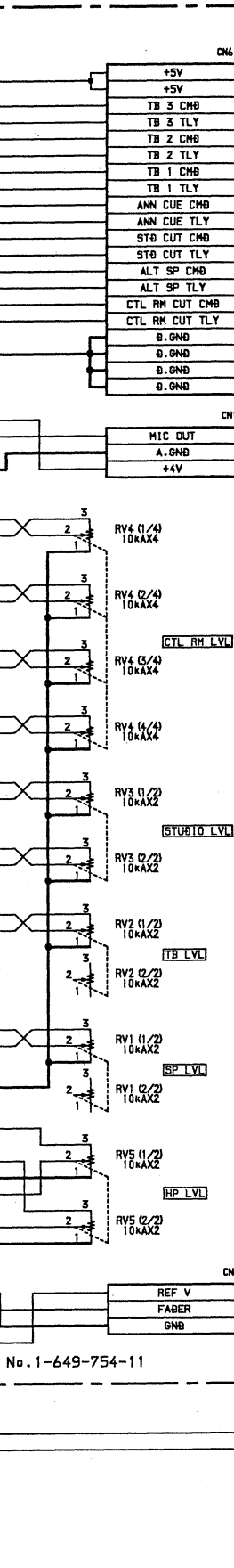
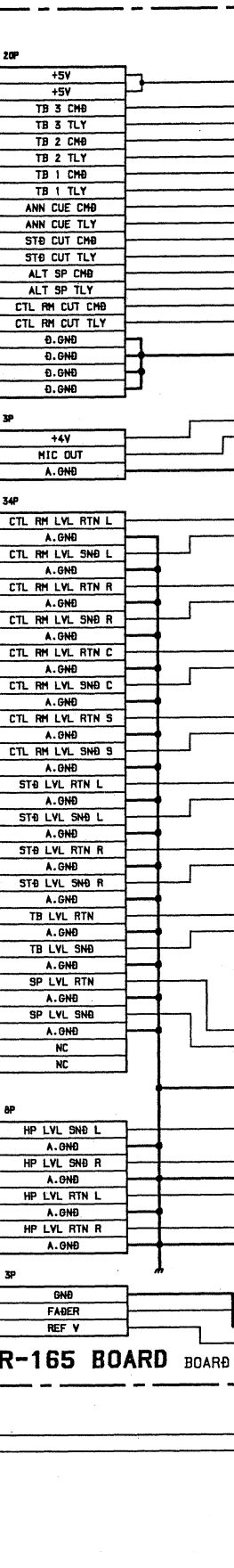
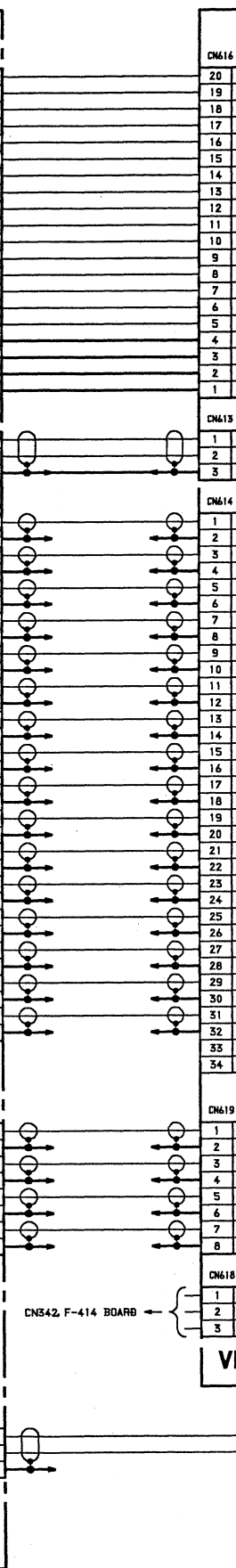
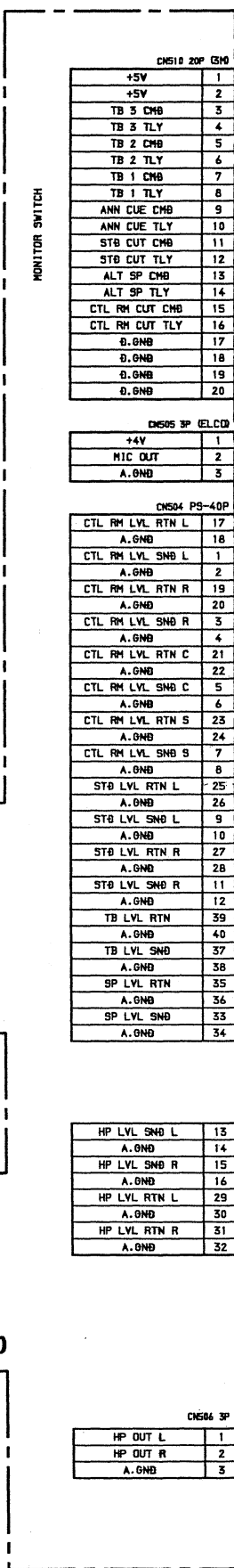




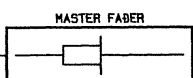
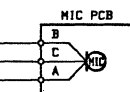




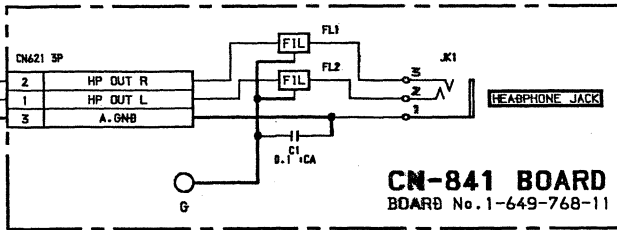
MOA-7A BOARD



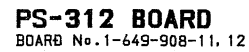
SW-606 BOARD BOARD No.1-649-755-11

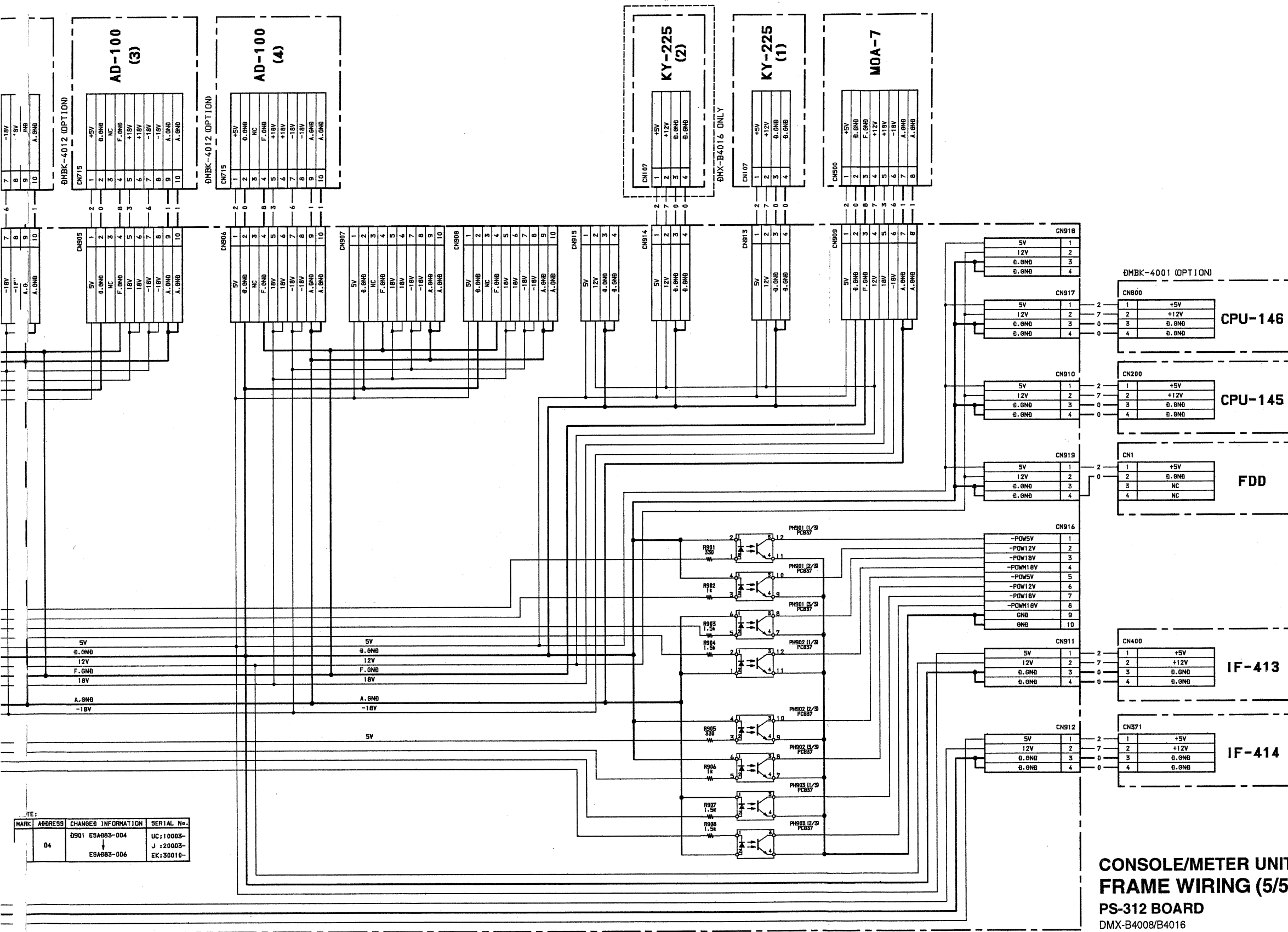


VR-165 BOARD BOARD No.1-649-754-11



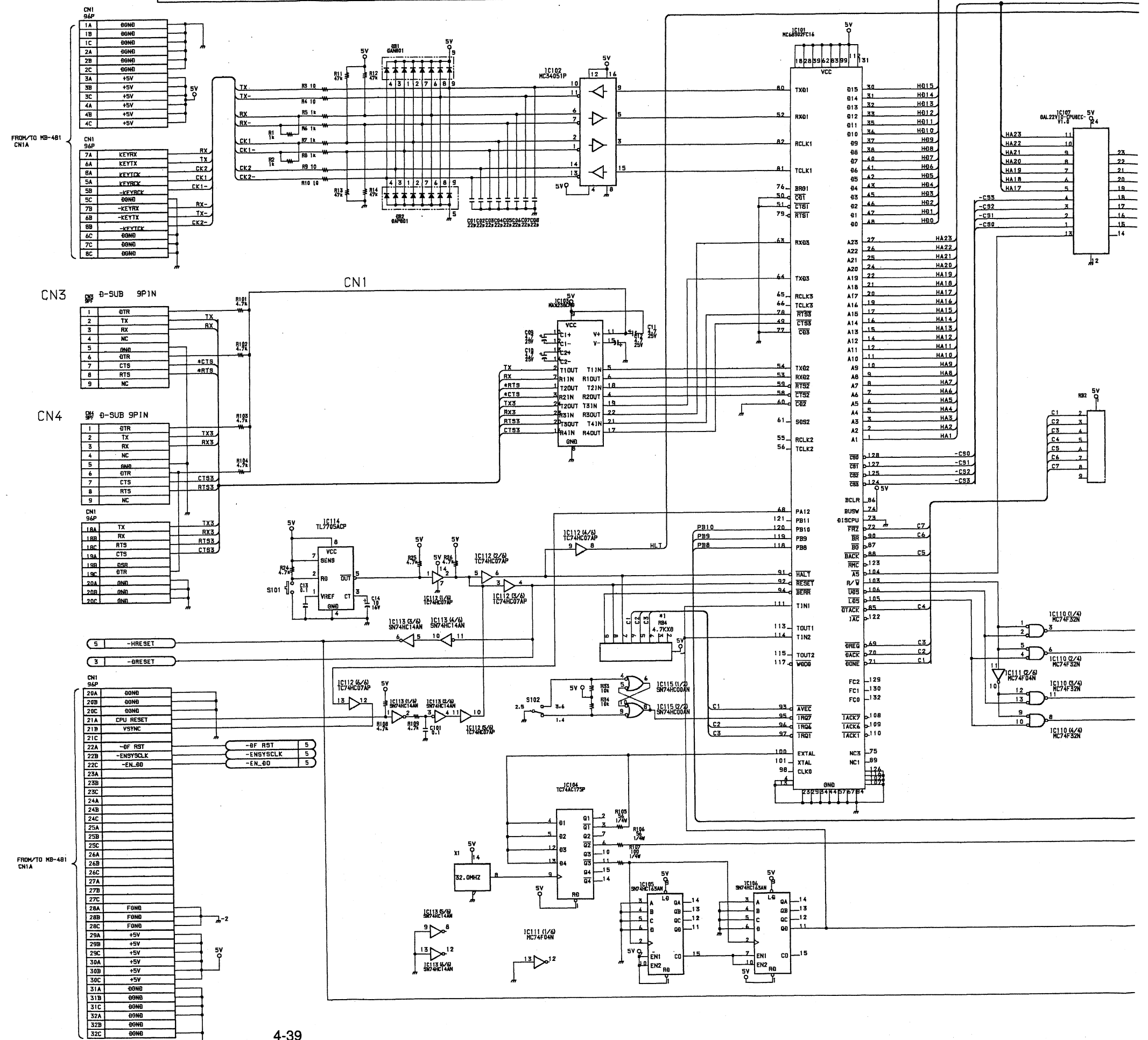
CONSOLE/METER UNIT
FRAME WIRING (4/5)
CN-840A/B, CN-841, SW-606, VR-165, BOARD
DMX-B4008/B4016





CONSOLE/METER UNIT
FRAME WIRING (5/5)
PS-312 BOARD
DMX-B4008/B4016

CPU-164 (1/6) DMX-B4008 PROCESSOR	CPU-164 (1/6) DMX-B4008 PROCESSOR
--------------------------------------	--------------------------------------



A

B

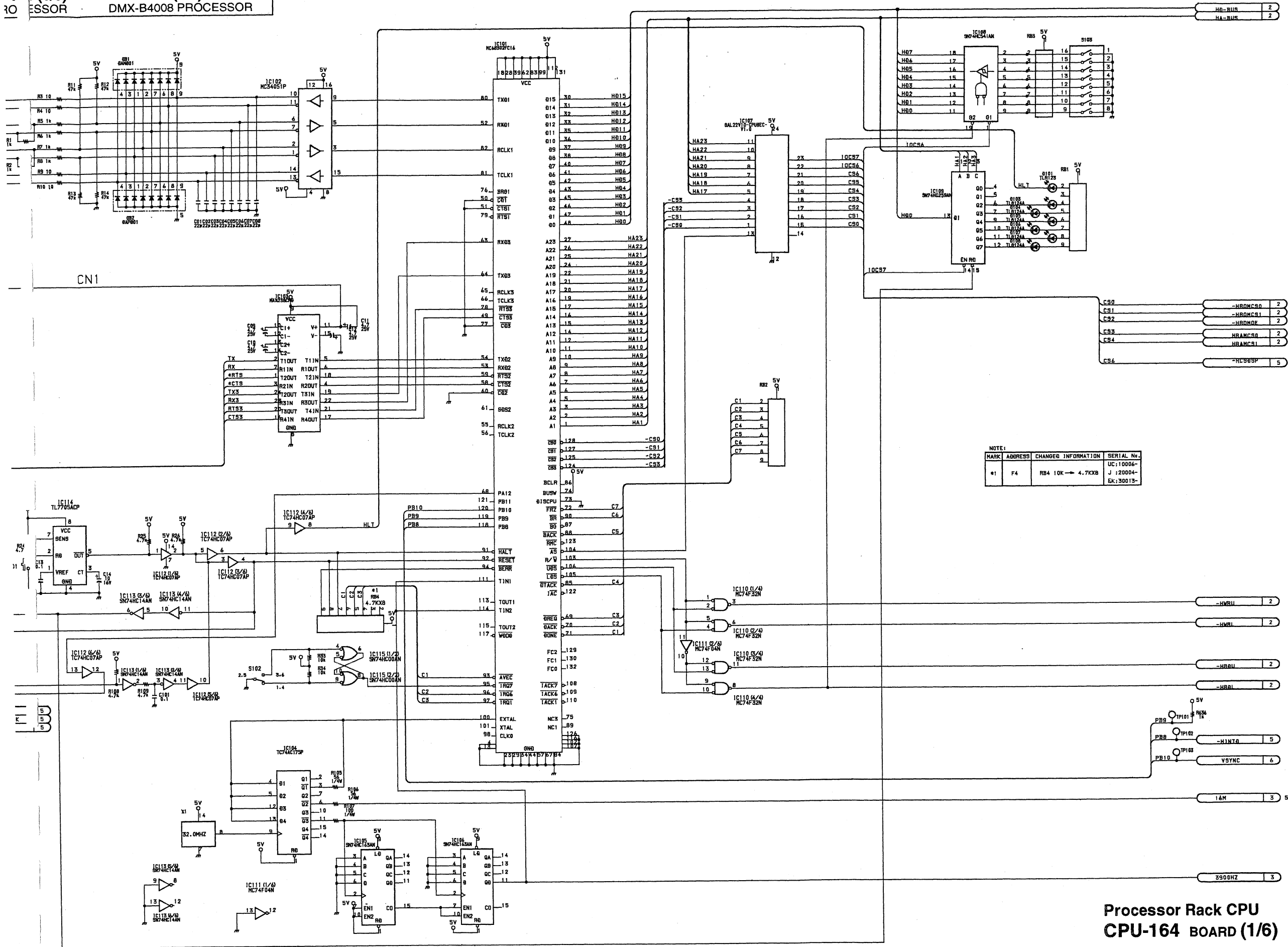
C

D

E**F**

C

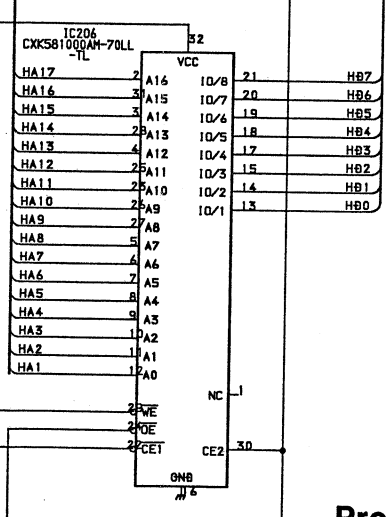
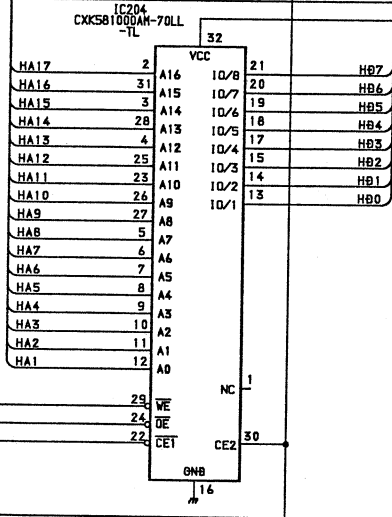
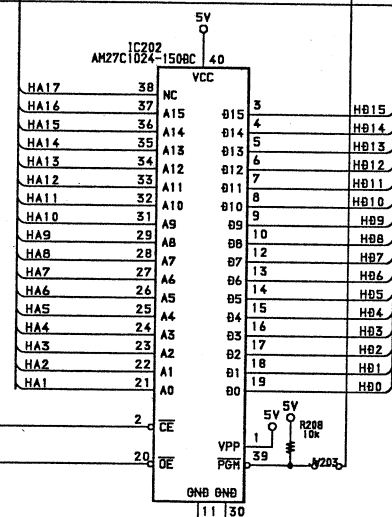
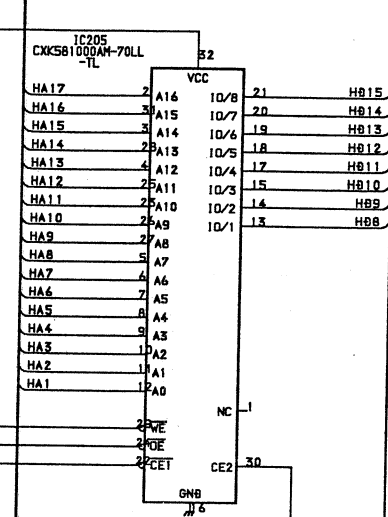
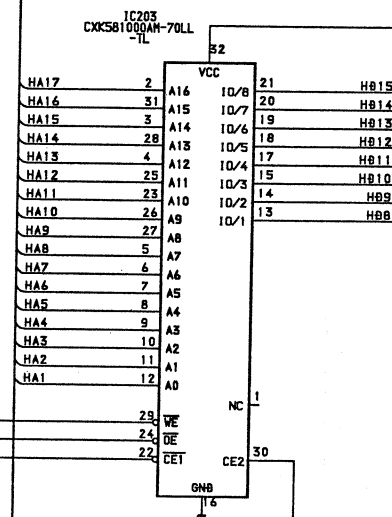
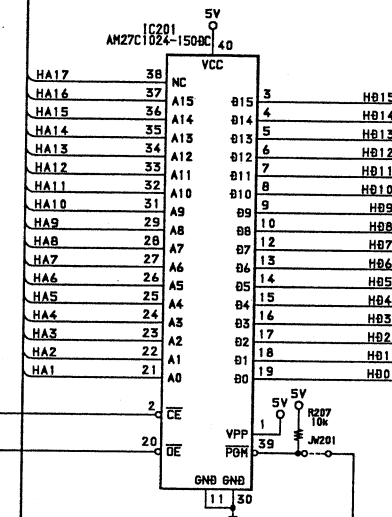
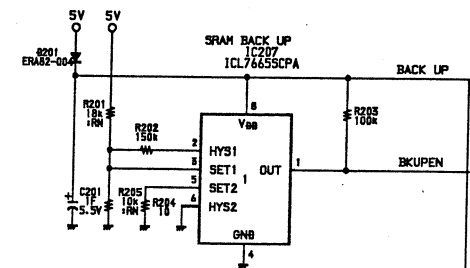
H



Processor Rack CPU
CPU-164 BOARD (1/6)

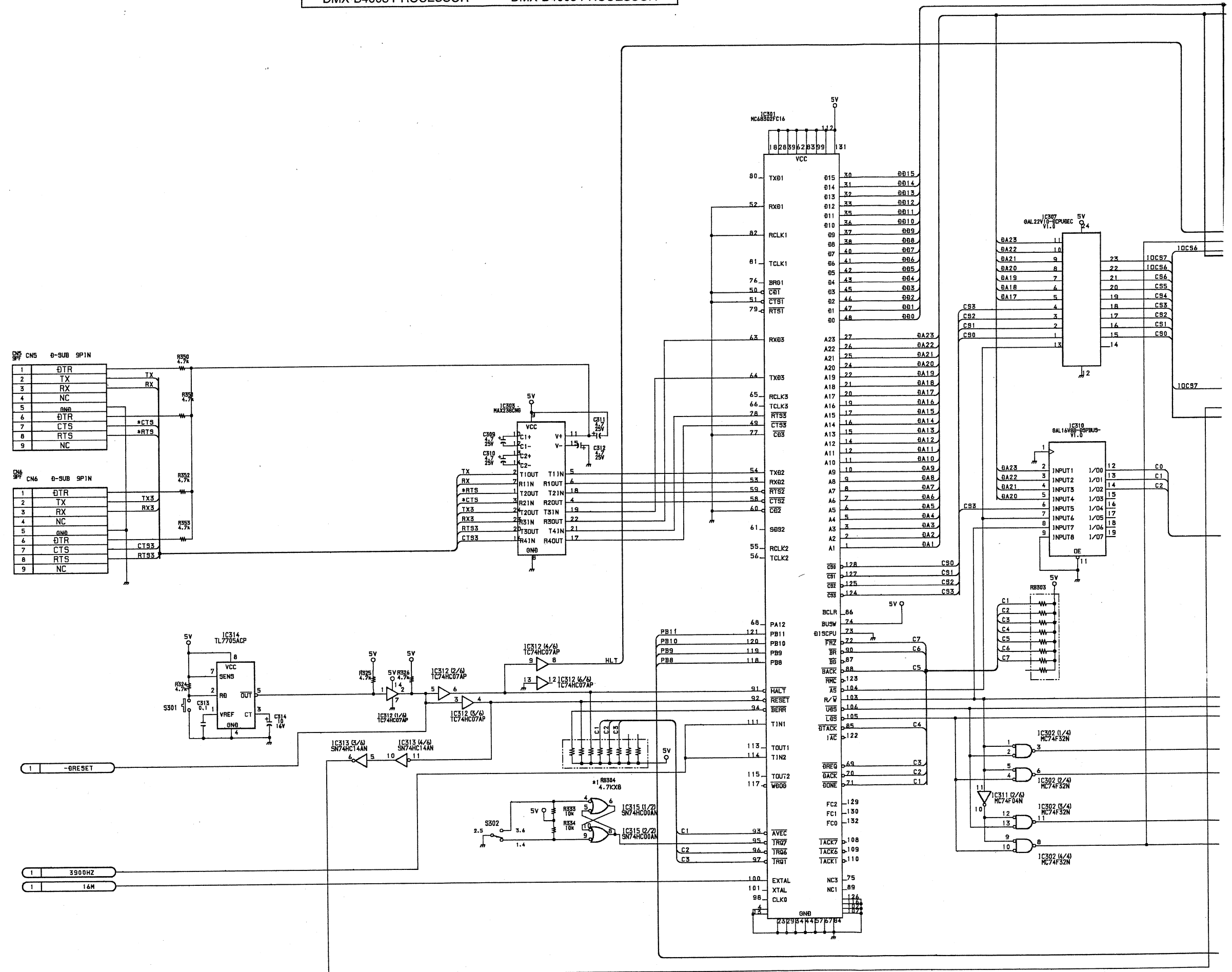
BOARD NO. 1-649-769-11
DMX-B4008

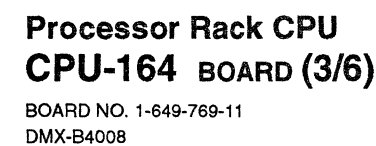




Processor Rack CPU
CPU-164 BOARD (2/6)

BOARD NO. 1-649-769-11
DMX-B4008





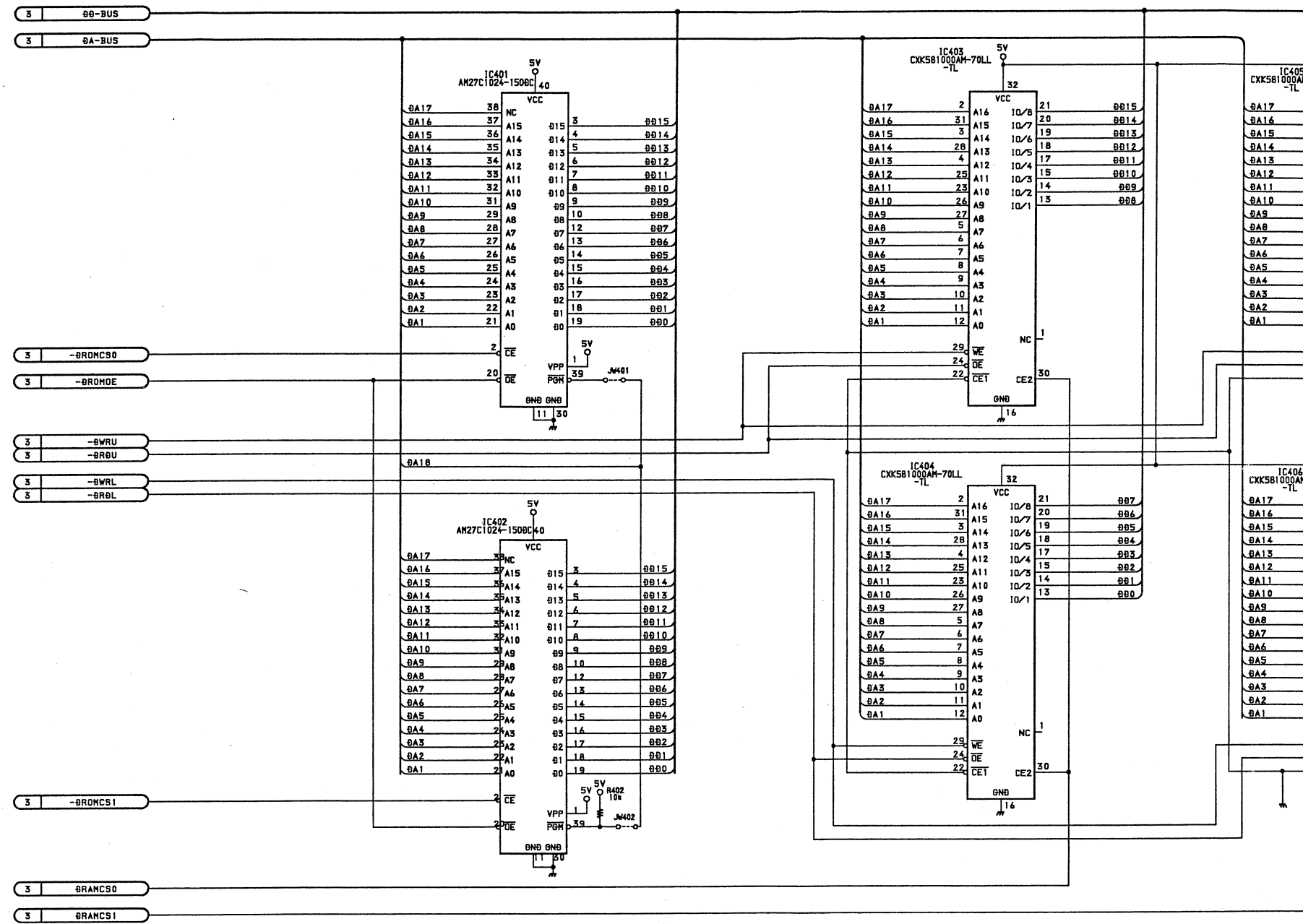
1

2

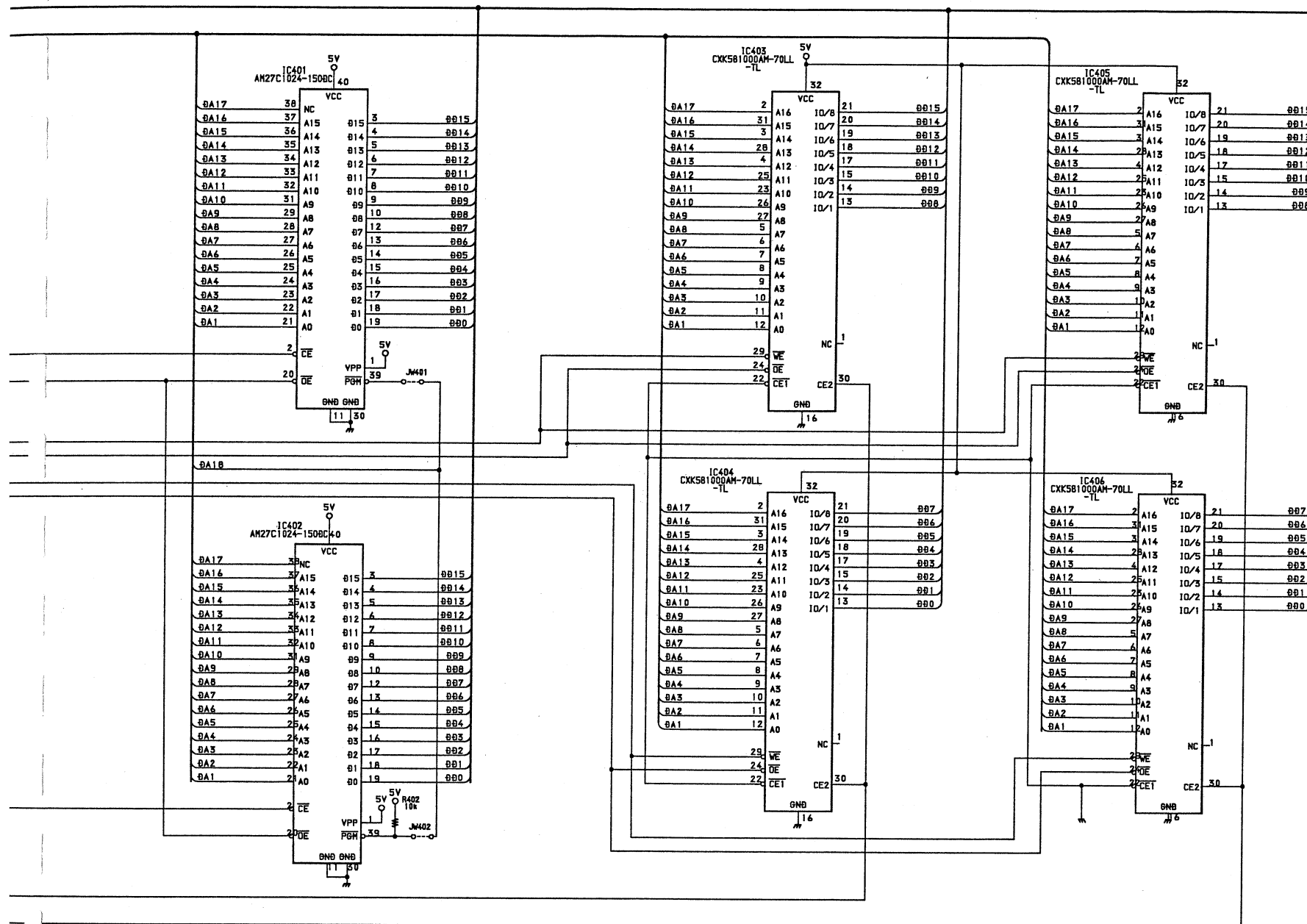
3

4

5

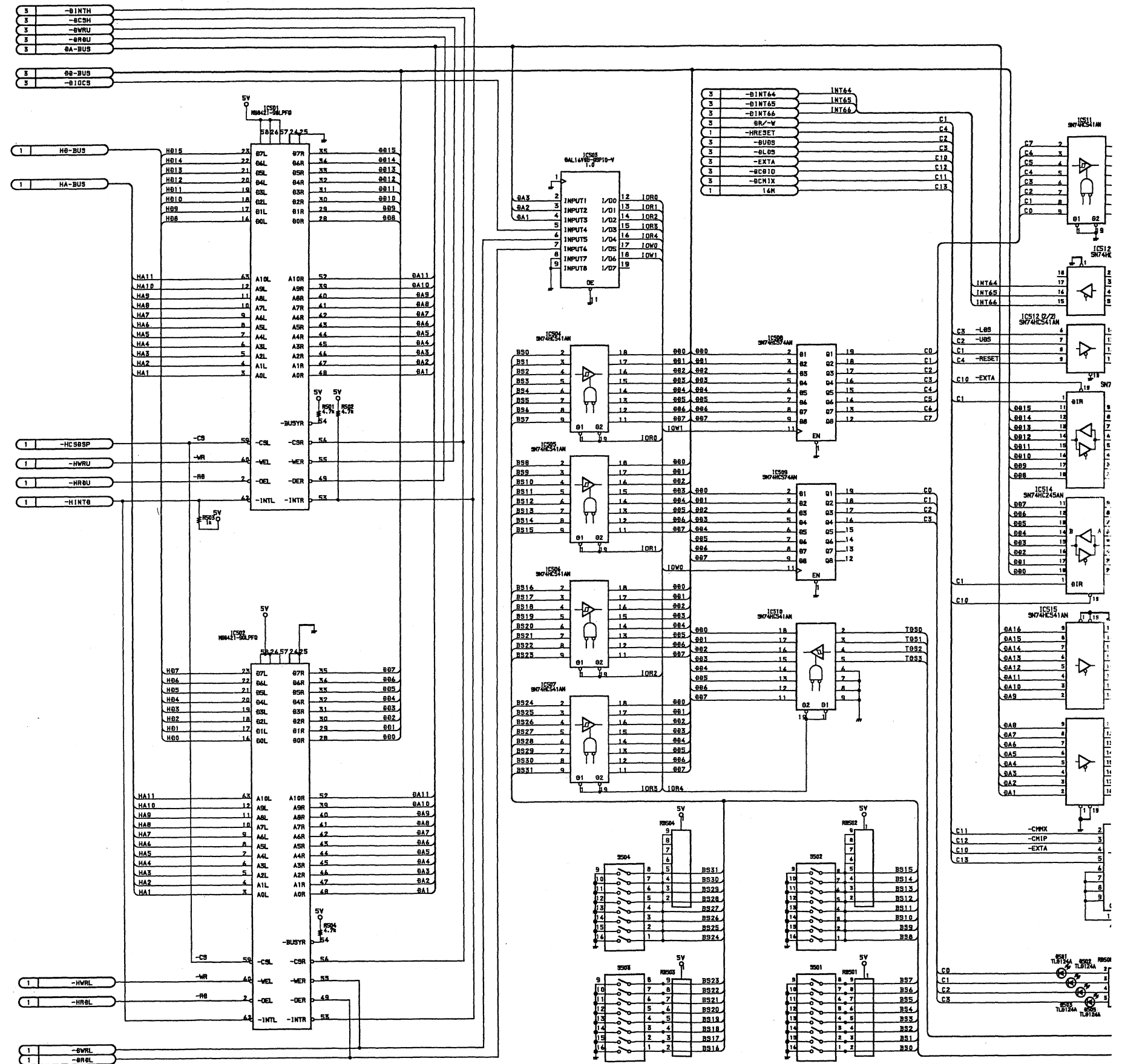


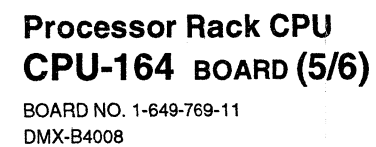
Proc
CPI
BOARD
DMX-B

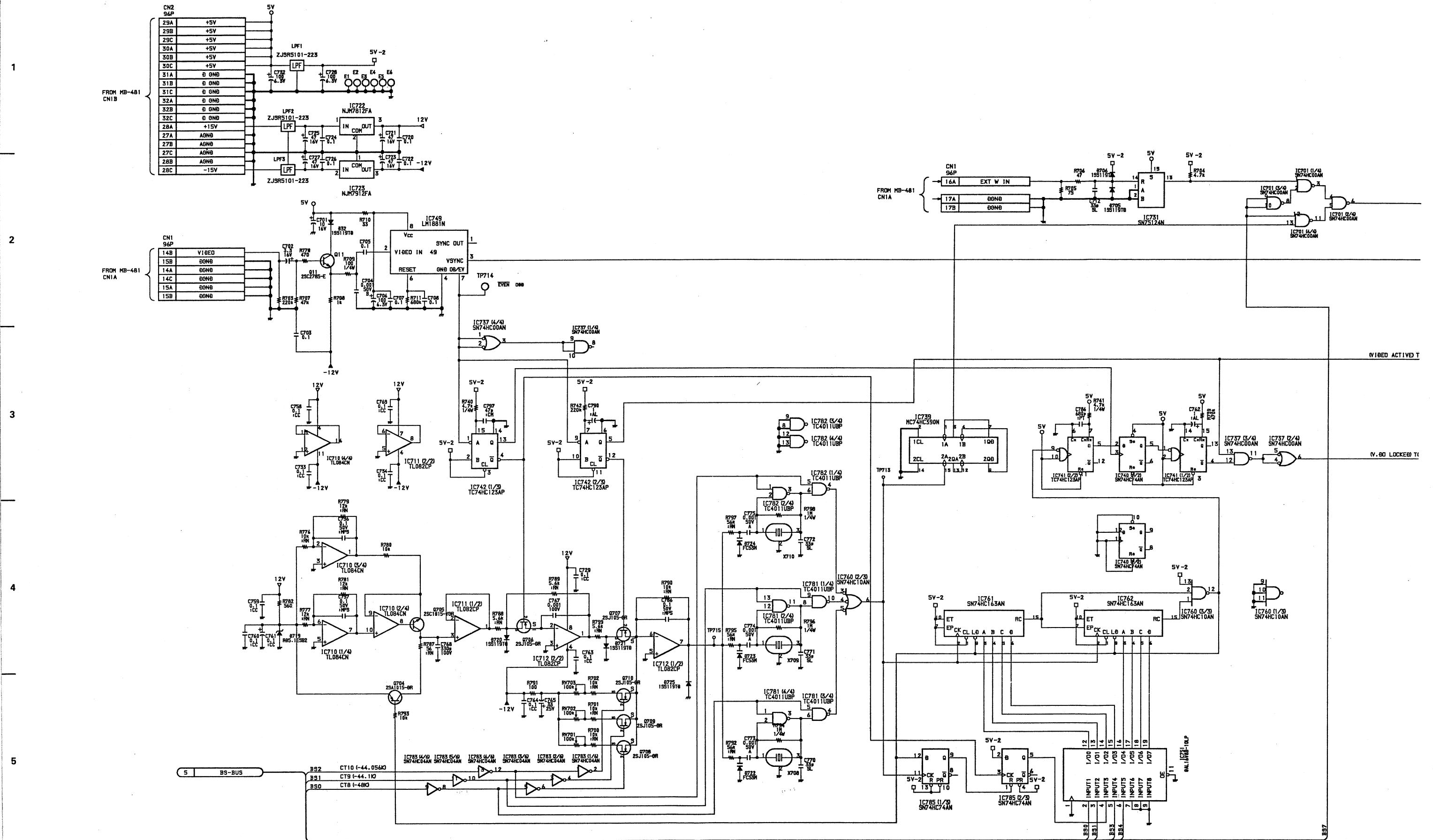


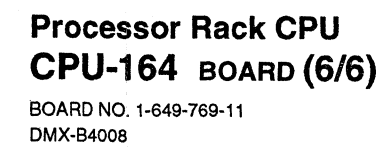
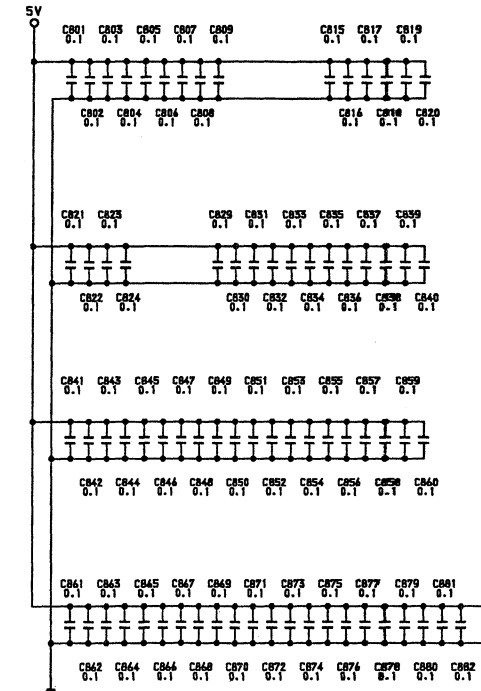
**Processor Rack CPU
CPU-164 BOARD (4/6)**

BOARD NO. 1-649-769-11
DMX-B4008





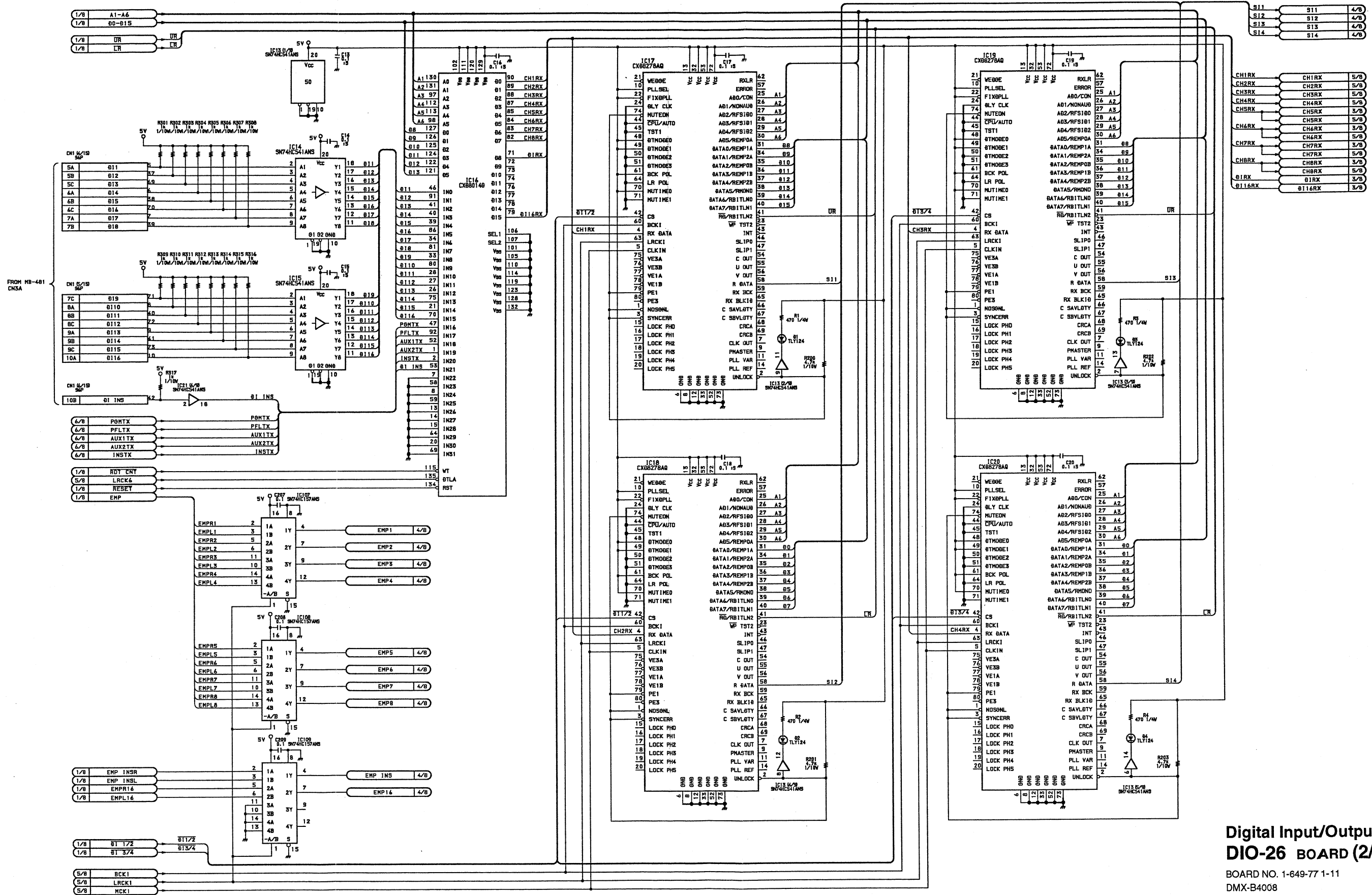




DIO-26 (1/8)
DMX-B4008 PROCESSOR

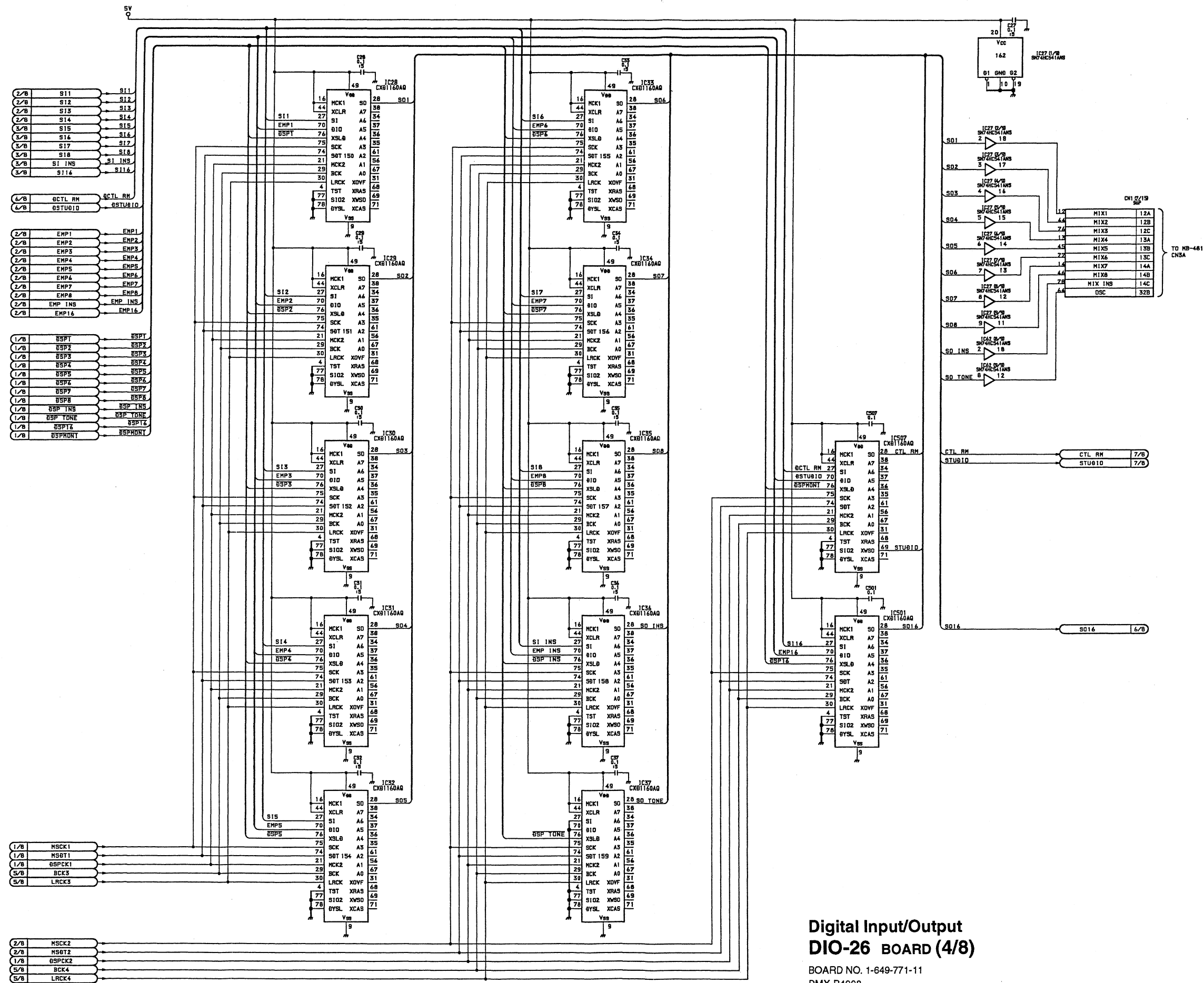


4-45



DIO-26 (4/8) DMX-B4008 PROCESSOR

DIO-26 (4/8) DMX-B4008 PROCESSOR



Digital Input/Output
DIO-26 BOARD (4/8)

BOARD NO. 1-649-771-11
DMX-B4008



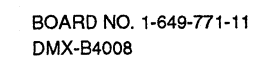
4-49

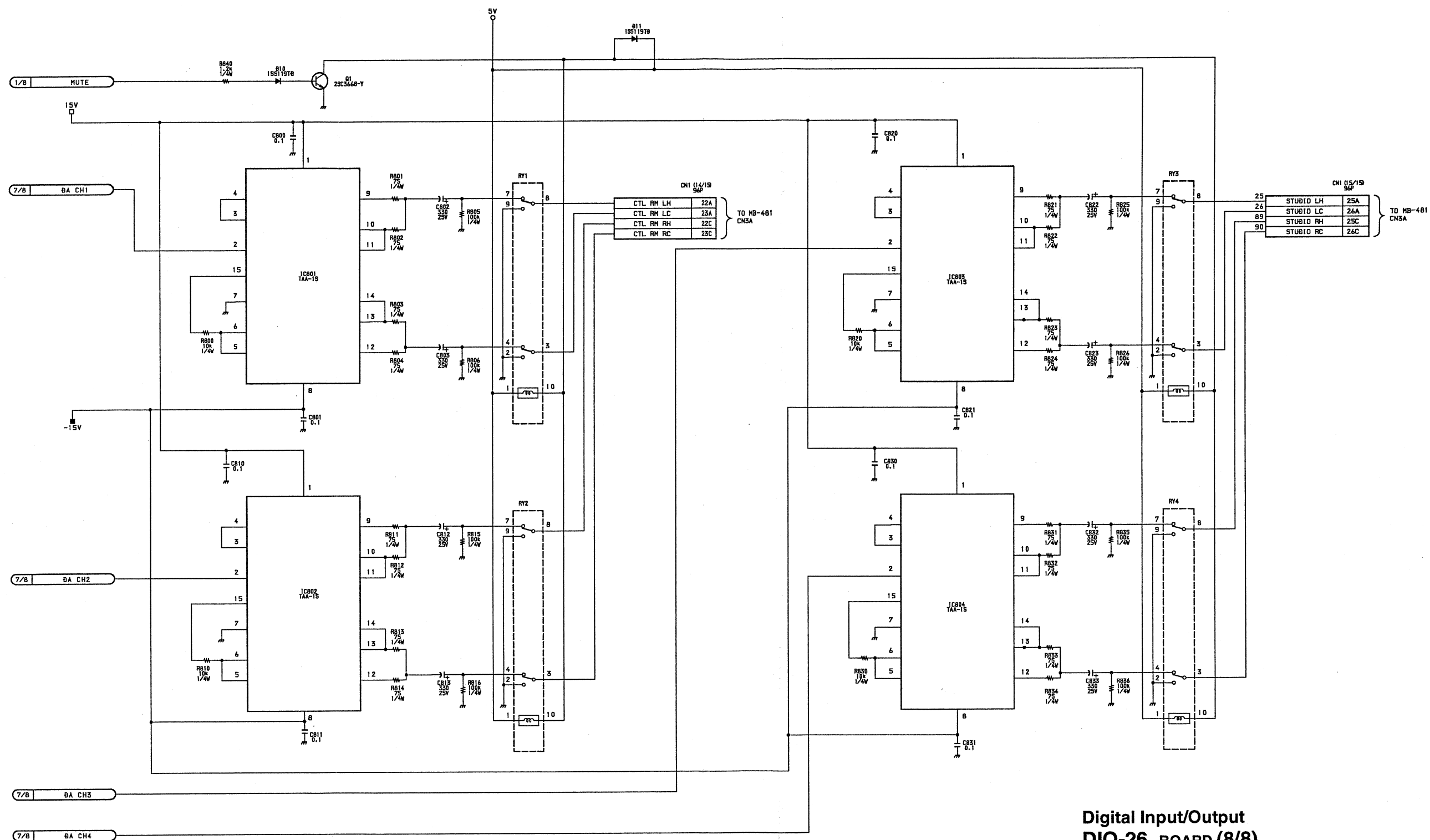
DIO-26 (6/8)
DMX-B4008 PROCESSOR



BOARD NO. 1-649-771-11
DMX-B4008

DIO-26 (7/8)
DMX-B4008 PROCESSOR

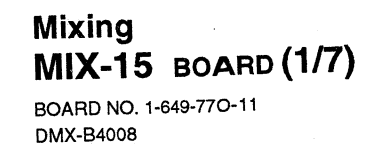




**Digital Input/Output
DIO-26 BOARD (8/8)**

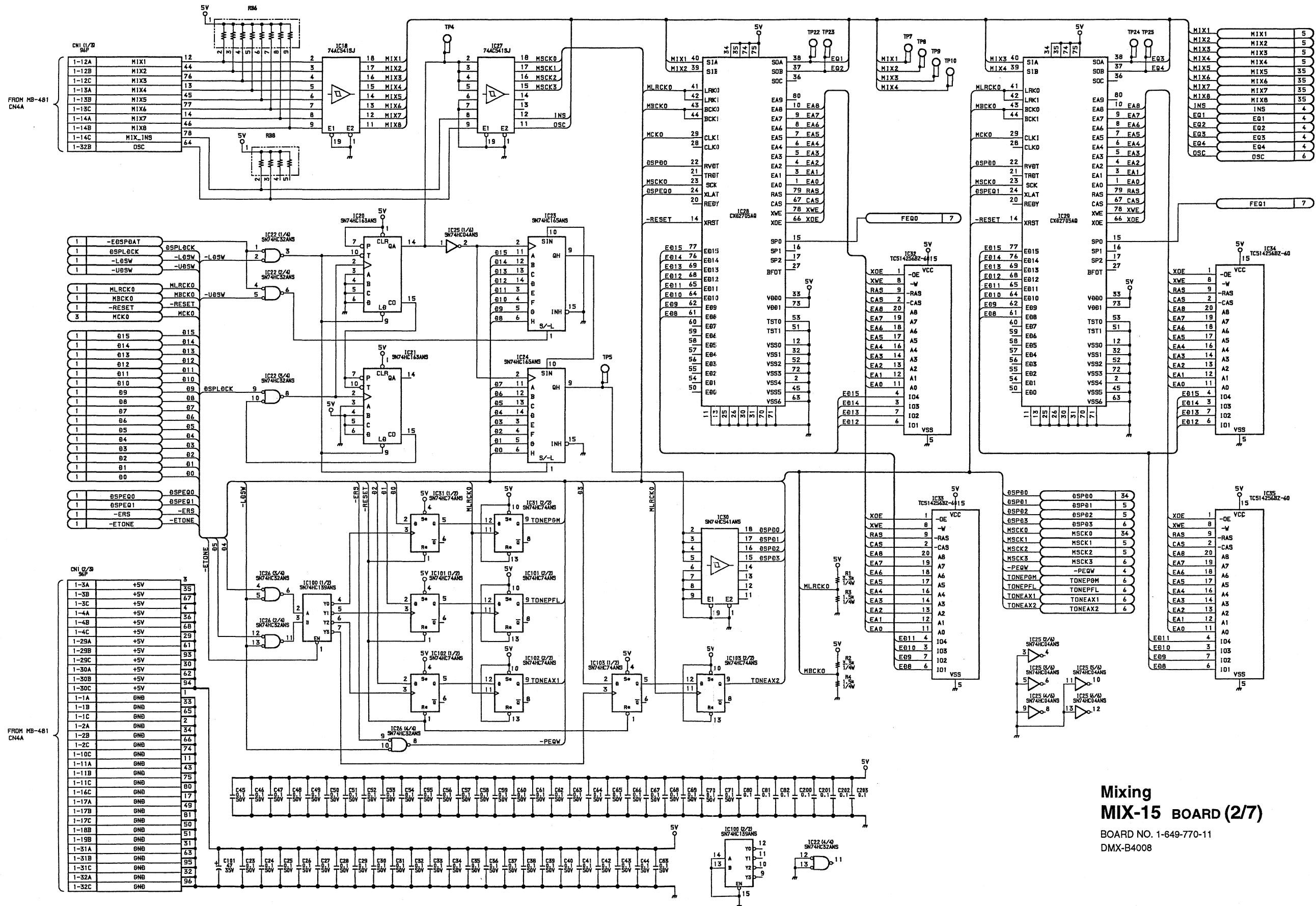
BOARD NO. 1-649-771-11
DMX-B4008

MIX-15 (1/7)
DMX-B4008 PROCESSOR

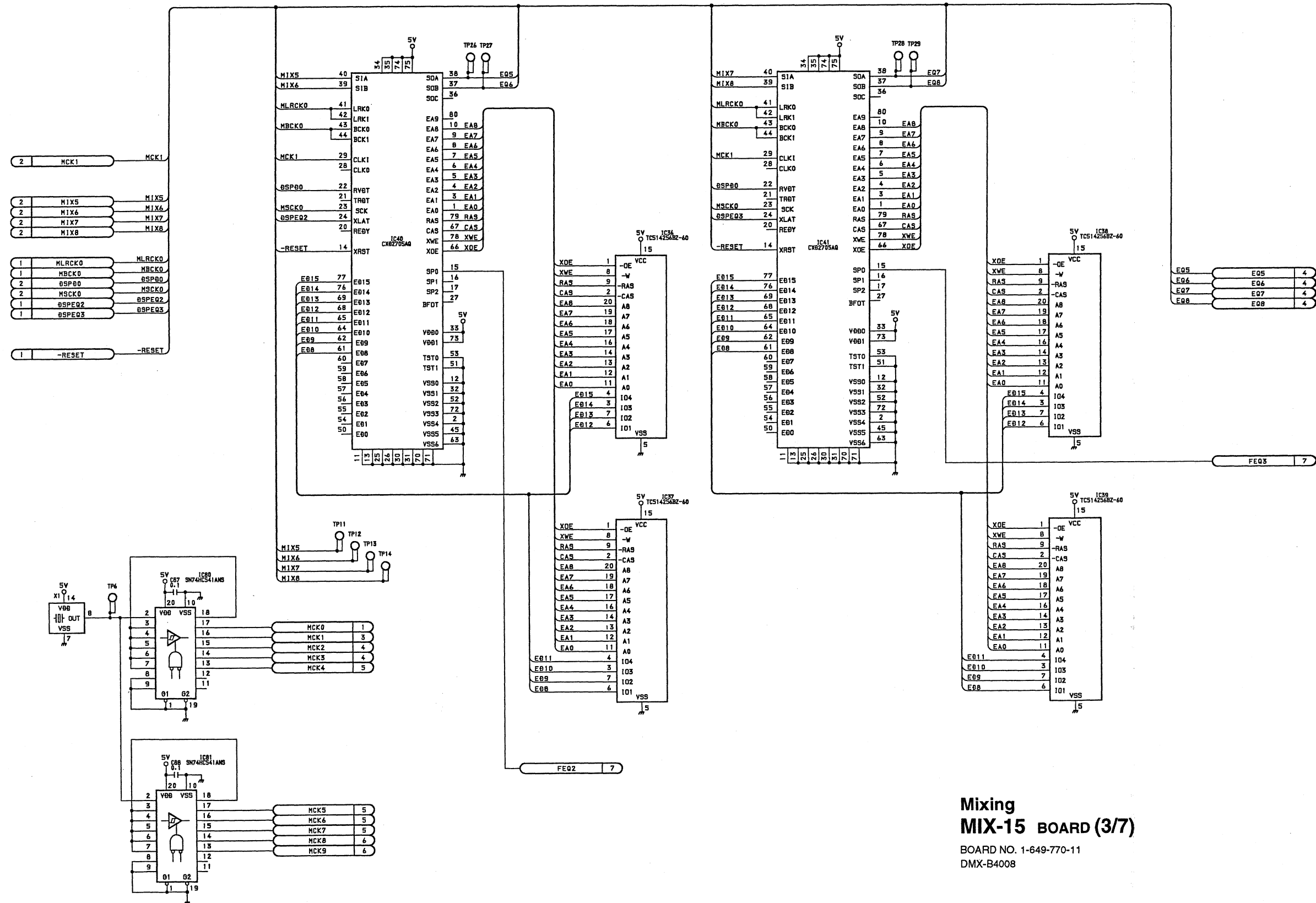


MIX-15 (2/7) DMX-B4008 PROCESSOR

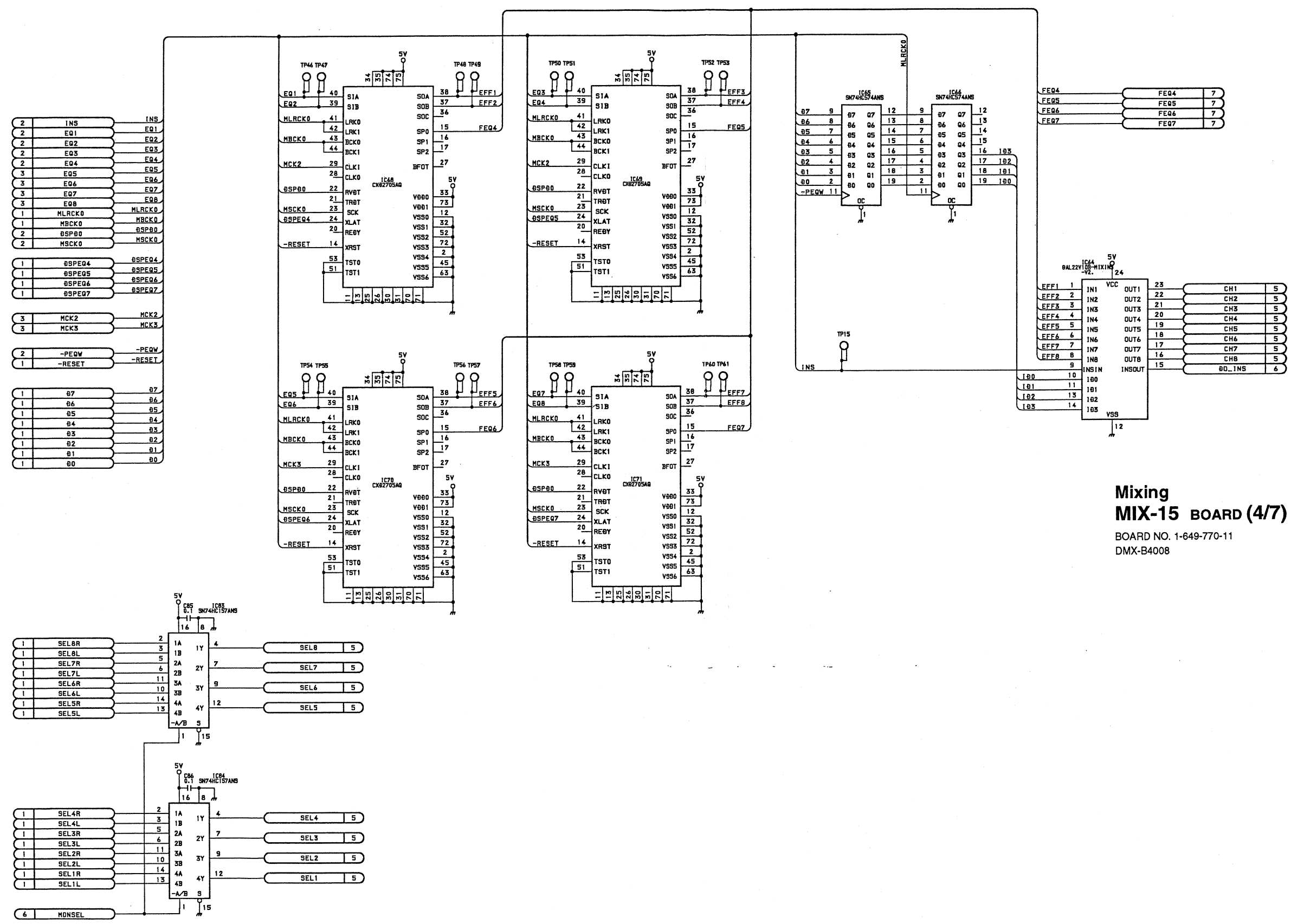
MIX-15 (2/7) DMX-B4008 PROCESSOR

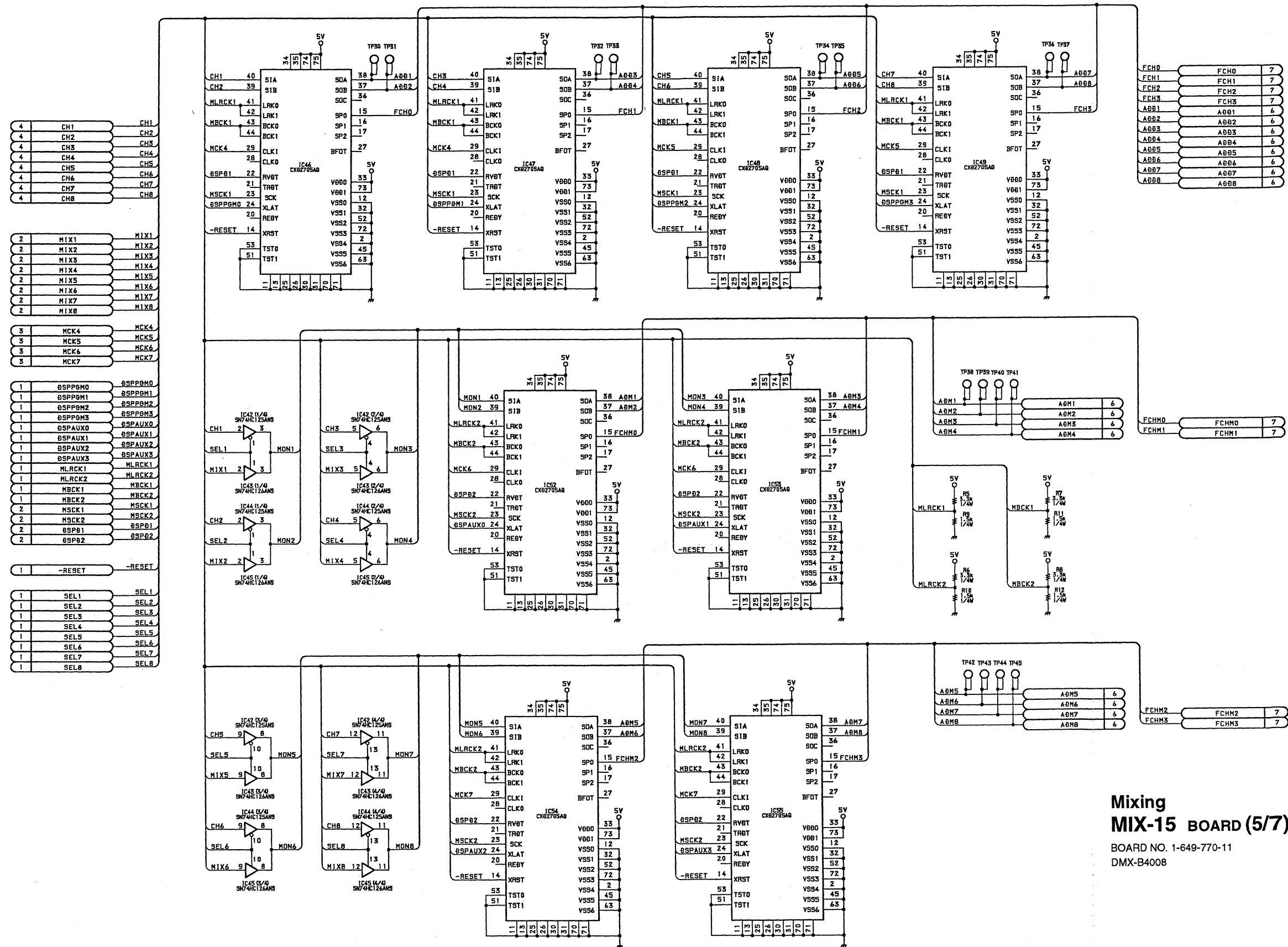


Mixing
MIX-15 BOARD (2/7)
BOARD NO. 1-649-770-11
DMX-B4008



Mixing
MIX-15 BOARD (3/7)
BOARD NO. 1-649-770-11
DMX-B4008



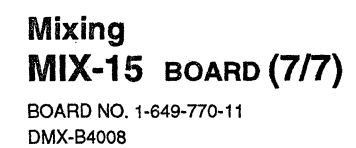


Mixing MIX-15 BOARD (5/7)

BOARD NO. 1-649-770-11
DMX-B4008



MIX-15 (7/7)
DMX-B4008 PROCESSOR



CN835

A	B	C
1	GND	GND
2	GND	GND
3	+5V	+5V
4	+5V	+5V
5	011	012
6	014	015
7	017	018
8	0110	0111
9	0113	0114
10	0116	0117
11	P0M	PFL
12	AUX2	INS_OUT
13	KYRCK	-KYRCK
14	KYTX	-KYTX
15	KYRX	-KYRX
16	KYTCK	-KYTCK
17	-9P0UT1	+9P1N1
18	-9P1N1	+9P1N2
19	+9P1N2	-9P0UT2
20	TX	RX
21	CTS	QSR
22	GND	GND
23	GND	GND
24	GND	GND
25	GND	GND
26	GND	GND
27	GND	GND
28	GND	GND
29	GND	GND
30	GND	GND
31	GND	GND
32	GND	GND

CN834

A	B	C
1	GND	GND
2	GND	GND
3	+5V	+5V
4	+5V	+5V
5	011	012
6	014	015
7	017	018
8	0110	0111
9	0113	0114
10	0116	0117
11	P0M	PFL
12	AUX2	INS_OUT
13	KYRCK	-KYRCK
14	KYTX	-KYTX
15	KYRX	-KYRX
16	KYTCK	-KYTCK
17	-9P0UT1	+9P1N1
18	-9P1N1	+9P1N2
19	+9P1N2	-9P0UT2
20	TX	RX
21	CTS	QSR
22	CPU RESET	VSYNCK
23	GND	GND
24	GND	GND
25	GND	-ENL_B0
26	GND	GND
27	GND	GND
28	GND	GND
29	GND	GND
30	GND	GND
31	GND	GND
32	GND	GND

CN833

A	B	C
1	GND	GND
2	GND	GND
3	+5V	+5V
4	+5V	+5V
5	011	012
6	014	015
7	017	018
8	0110	0111
9	0113	0114
10	0116	0117
11	P0M	PFL
12	AUX2	INS_OUT
13	KYRCK	-KYRCK
14	KYTX	-KYTX
15	KYRX	-KYRX
16	KYTCK	-KYTCK
17	-9P0UT1	+9P1N1
18	-9P1N1	+9P1N2
19	+9P1N2	-9P0UT2
20	TX	RX
21	CTS	QSR
22	GND	GND
23	GND	VIDEO
24	GND	GND
25	EXTW0IN	-ENL_B0
26	GND	EXTW0UT1
27	GND	GND
28	GND	GND
29	GND	GND
30	GND	GND
31	GND	GND
32	GND	GND

CN10 3P

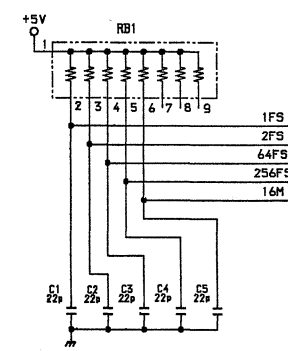
1	FAN1
2	
3	GND

CN11 7P

1	+15V
2	AGND
3	-15V
4	+5V
5	+5V
6	GND
7	GND

CN12 9P

1	0B0
2	0B1
3	0B2
4	0B3
5	0B4
6	0B5
7	N.C
8	LED_SEL
9	PS_SEL



CN837

A	B	C
1	GND	GND
2	GND	GND
3	+5V	+5V
4	+5V	+5V
5	011	012
6	014	015
7	017	018
8	0110	0111
9	0113	0114
10	0116	0117
11	P0M	PFL
12	AUX2	INS_OUT
13	KYRCK	-KYRCK
14	KYTX	-KYTX
15	KYRX	-KYRX
16	KYTCK	-KYTCK
17	-9P0UT1	+9P1N1
18	-9P1N1	+9P1N2
19	+9P1N2	-9P0UT2
20	TX	RX
21	CTS	QSR
22	44FS	00_PFL
23	-BF RST	GND
24	1FS	GND
25	GND	-ENL_B0
26	AGND	AGND
27	CTL_L 00	AGND
28	CTL_L 01	AGND
29	AGND	AGND
30	ST0_L 00	AGND
31	ST0_L 01	AGND
32	+15V	AGND

CN836

A	B	C
1	GND	GND
2	GND	GND
3	+5V	+5V
4	+5V	+5V
5	011	012
6	014	015
7	017	018
8	0110	0111
9	0113	0114
10	0116	0117
11	P0M	PFL
12	AUX2	INS_OUT
13	KYRCK	-KYRCK
14	KYTX	-KYTX
15	KYRX	-KYRX
16	KYTCK	-KYTCK
17	-9P0UT1	+9P1N1
18	-9P1N1	+9P1N2
19	+9P1N2	-9P0UT2
20	TX	RX
21	CTS	QSR
22	GND	GND
23	GND	GND
24	GND	GND
25	GND	-ENL_B0
26	AGND	AGND
27	CTL_L 00	AGND
28	CTL_L 01	AGND
29	AGND	AGND
30	ST0_L 00	AGND
31	ST0_L 01	AGND
32	+15V	AGND

MIX-15

A	B	C
1	GND	GND
2	GND	GND
3	+5V	+5V
4	+5V	+5V
5	011	012
6	014	015
7	017	018
8	0110	0111
9	0113	0114
10	0116	0117
11	GND	GND
12	MIX1	MIX2
13	MIX4	MIX5
14	MIX7	MIX8
15	00_P0M	00_PFL
16	00_AUX2	00_INS
17	GND	GND
18	P0M	GND
19	AUX1	GND
20	INS_OUT	
21		
22		
23		
24		
25		
26		
27		
28	GND	GND
29	+5V	+5V
30	+5V	+5V
31	GND	GND
32	GND	DSC

010-26

A	B	C
1	GND	GND
2	GND	GND
3	+5V	+5V
4	+5V	+5V
5	011	012
6	014	015
7	017	018
8	0110	0111
9	0113	0114
10	0116	0117
11	GND	GND
12	MIX1	MIX2
13	MIX4	MIX5
14	MIX7	MIX8
15	00_P0M	00_PFL
16	00_AUX2	00_INS
17	GND	GND
18	P0M	GND
19	AUX1	GND
20	INS_OUT	
21		
22		
23		
24		
25		
26		
27		
28	GND	GND
29	+5V	+5V
30	+5V	+5V
31	GND	GND
32	GND	DSC

IF

A	B	C
1	GND	GND
2	GND	GND
3	+5V	+5V
4	+5V	+5V
5	KYRCK	-KYRCK
6	KYTX	-KYTX
7	KYRX	-KYRX
8	KYTCK	-KYTCK
9	-9P0UT1	+9P1N1
10	-9P1N1	+9P1N2
11	GND	GND
12	-9P1N2	+9P0UT2
13	-9P0UT2	GND
14	GND	VIDEO
15	GND	GND
16	EXTW0IN	GND
17	GND	GND
18	TX	RX
19	CTS	QSR
20	GND	GND
21		
22		
23		
24		
25		
26		
27		
28	GND	GND
29	+5V	+5V
30	+5V	+5V
31	GND	GND
32	GND	DSC

CPU-164

A	B	C
1	GND	GND
2	GND	GND
3	+5V	+5V
4	+5V	+5V
5	KYRCK	-KYRCK
6	KYTX	-KYTX
7	KYRX	-KYRX
8	KYTCK	-KYTCK
9	-9P0UT1	+9P1N1
10	-9P1N1	+9P1N2
11	GND	GND
12	-9P1N2	+9P0UT2
13	-9P0UT2	GND
14	GND	VIDEO
15	GND	GND
16	EXTW0IN	GND
17	GND	GND
18	TX	RX
19	CTS	QSR
20	GND	GND
21	CPU RESET	VSYNCK
22	-BF RST	-ENSYNCK
23		
24		
25		
26		
27		
28	GND	GND
29	+5V	+5V
30	+5V	+5V
31	GND	GND
32	GND	DSC

CN4B 96P

A	B	C
1	1FS	0B0
2	64FS	0B0
3	GND	GND
4	16M	GND
5	T0S0	T0S3
6	R/W	GND
7	-UDS	GND
8	GND	GND
9	INT63	INT64
10	INT66	INT67
11	WREF	B50
12	B52	B56
13	-DC010	GND
14	0B0	0B1
15	0B3	0B4
16	0B6	0B7
17	0B9	0B10
18	0B12	0B13
19	0B15	GND
20	GND	0A1
21	0A3	0A4
22	0A6	0A7
23	0A9	0A10
24	0A12	0A13
25	0A15	GND
26		
27	AGND	AGND
28	+15V	AGND
29	BACKUP	+5V
30	+5V	+5V
31	GND	GND
32	GND	GND

CN3B 96P

A	B	C
1	1FS	0B0
2	64FS	0B0
3	GND	GND
4	16M	GND
5	T0S0	T0S3
6	R/W	GND
7	-UDS	GND
8	GND	GND
9	INT63	INT64
10	INT66	INT67
11	WREF	B50
12	B52	B56
13	-DC010	GND
14	0B0	0B1
15	0B3	0B4
16	0B6	0B7
17	0B9	0B10
18	0B12	0B13
19	0B15	GND
20	GND	0A1
21	0A3	0A4
22	0A6	0A7
23	0A9	0A10
24	0A12	0A13
25	0A15	GND
26		
27	AGND	AGND
28	+15V	AGND
29	BACKUP	+5V
30	+5V	+5V
31	GND	GND
32	GND	GND

CN2B

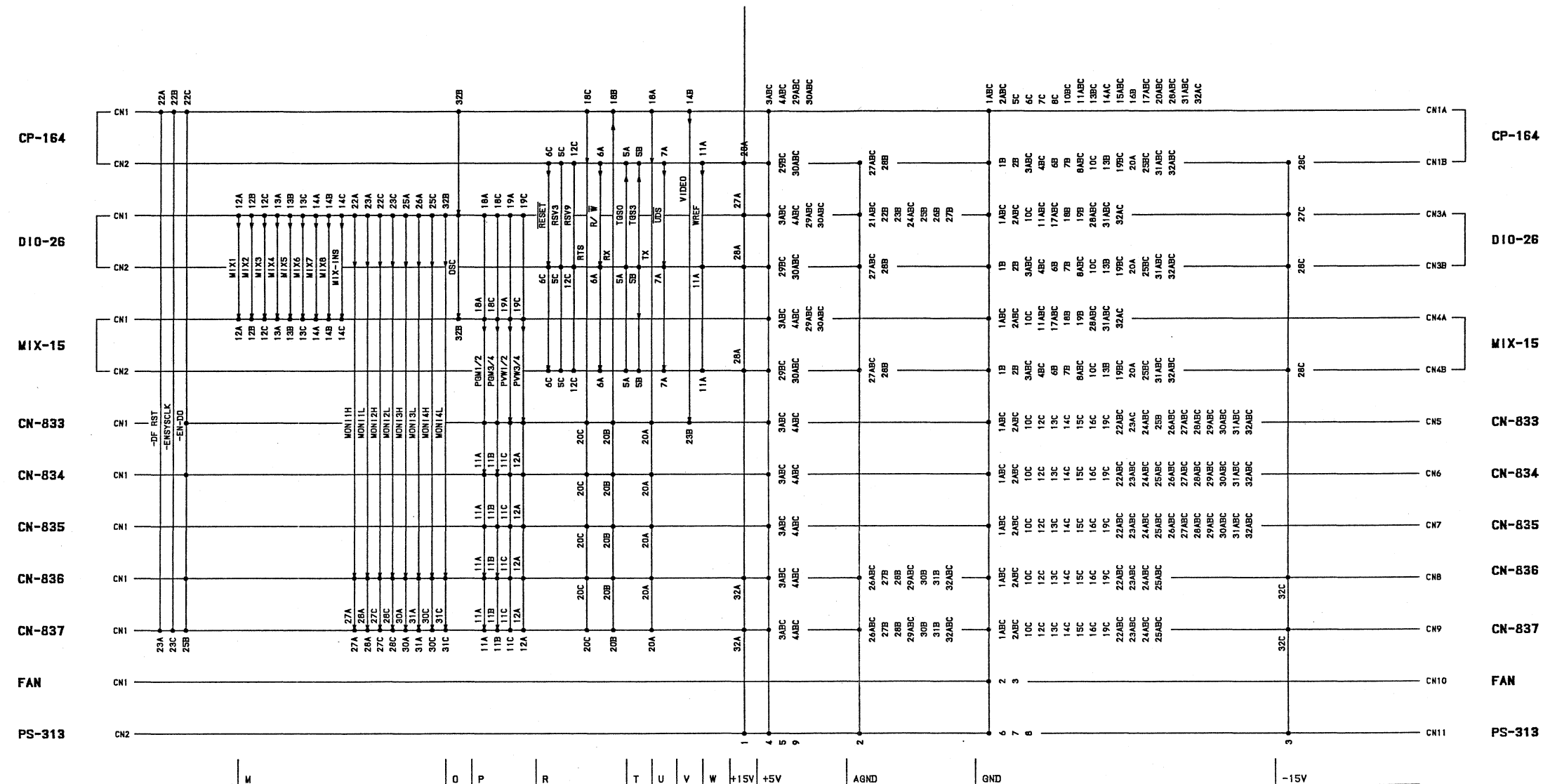
A	B	C
1	1FS	0B0
2	64FS	0B0
3	GND	GND
4	16M	GND
5	T0S0	T0S3
6	R/W	GND
7	-UDS	GND
8	GND	GND
9	INT63	INT64
10	INT66	INT67
11	WREF	B50
12	B52	B56
13	-DC010	GND
14	0B0	0B1
15	0B3	0B4
16	0B6	0B7
17	0B9	0B10
18	0B12	0B13
19	0B15	GND
20	GND	0A1
21	0A3	0A4
22	0A6	0A7
23	0A9	0A10
24	0A12	0A13
25	0A15	GND
26		
27	AGND	AGND
28	+15V	AGND
29	BACKUP	+5V
30	+5V	+5V
31	GND	GND
32	GND	GND

CN1B 96P

A	B	C
1	1FS	0B0
2	64FS	0B0
3	GND	GND
4	16M	GND
5	T0S0	T0S3
6	R/W	GND
7	-UDS	GND
8	GND	GND
9	INT63	INT64
10	INT66	INT67
11	WREF	B50
12	B52	B56
13	-DC010	GND
14	0B0	0B1
15	0B3	0B4
16	0B6	0B7
17	0B9	0B10
18	0B12	0B13
19	0B15	GND
20	GND	0A1
21	0A3	0A4
22	0A6	0A7
23	0A9	0A10
24	0A12	0A13
25	0A15	GND
26		
27	AGND	AGND
28	+15V	AGND
29	BACKUP	+5V
30	+5V	+5V
31	GND	GND
32	GND	GND

NOTE:</

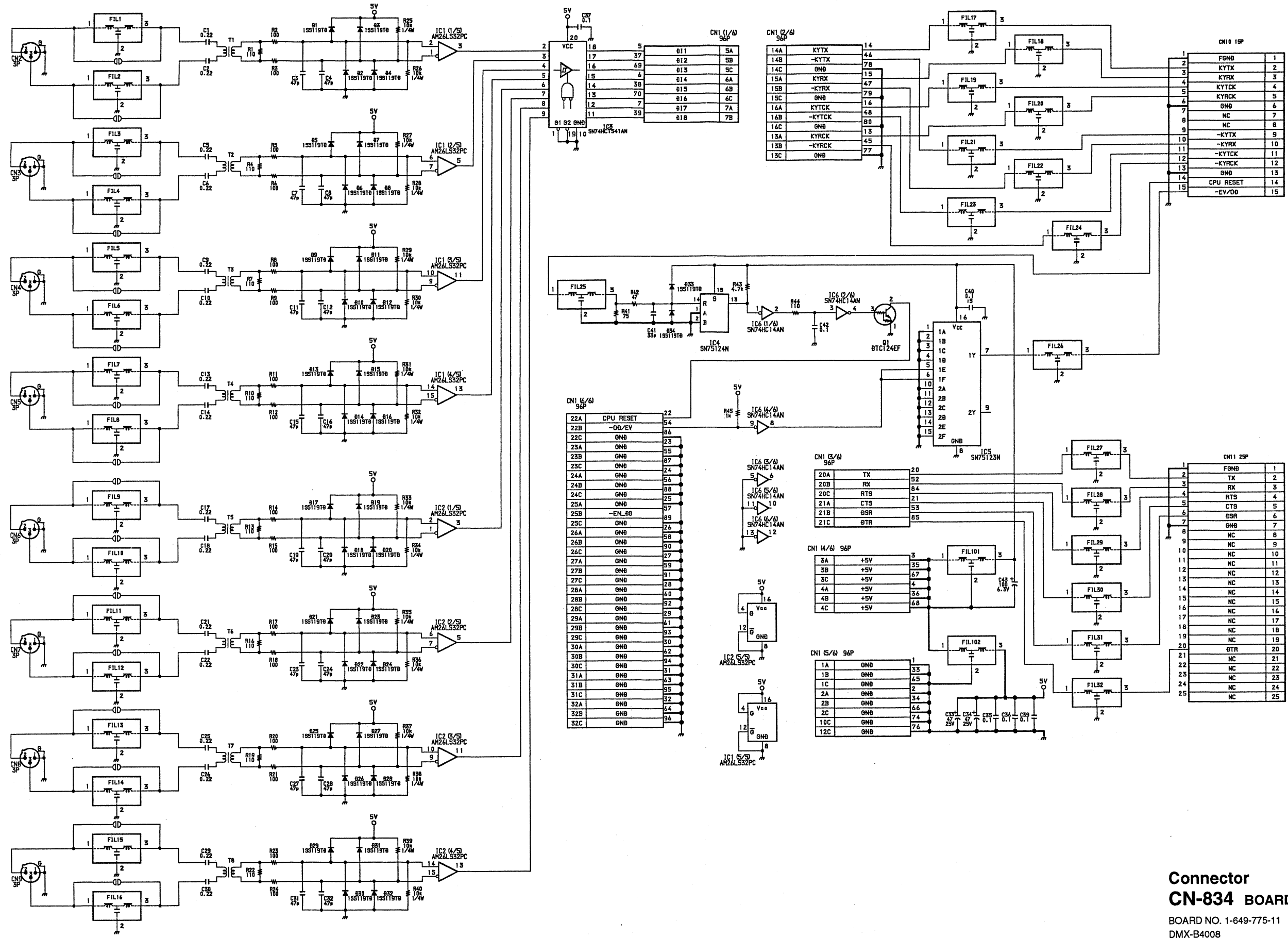
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DMX-B4008



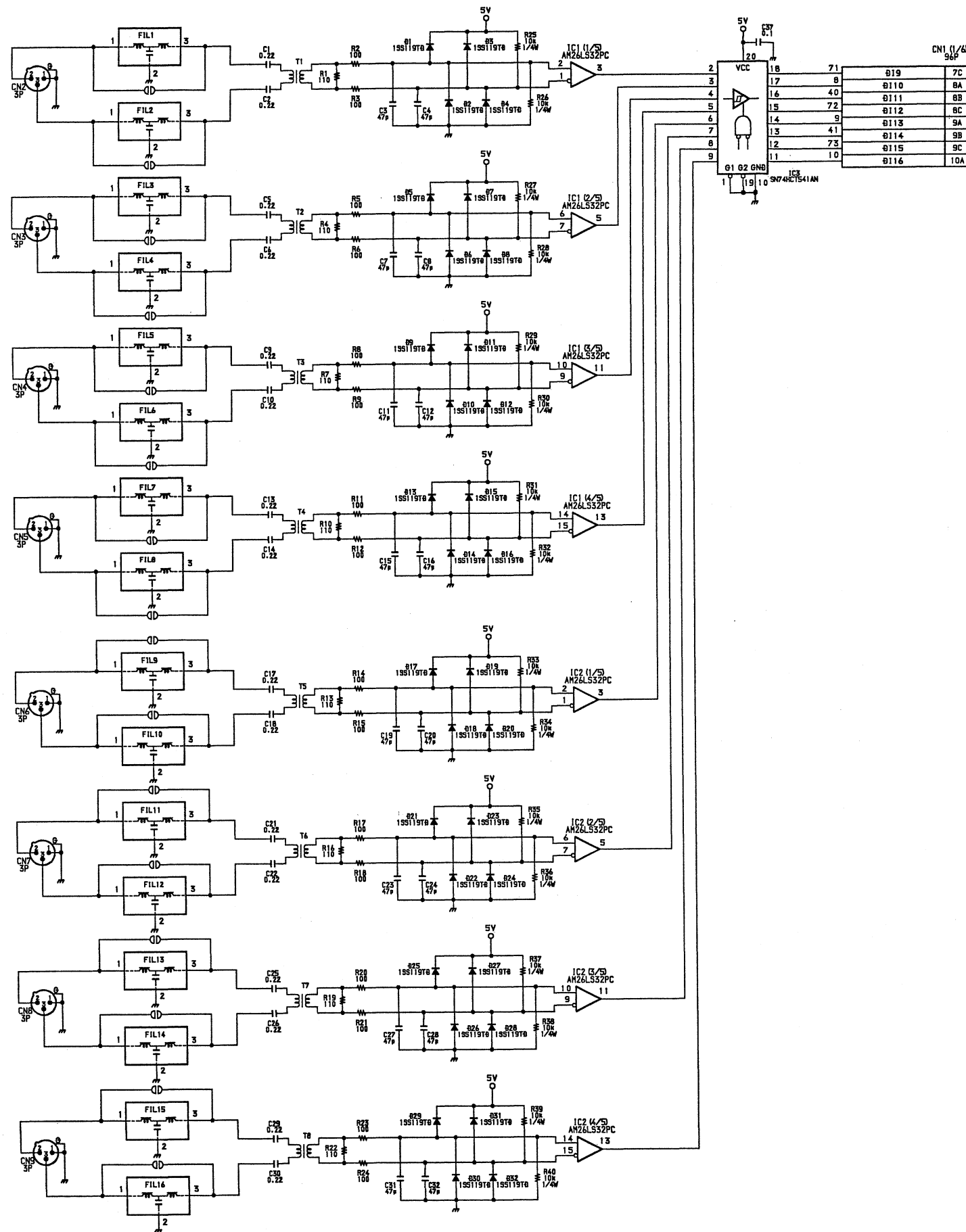
Processor Rack Mother
MB-481 BOARD (3/3)

BOARD NO. 1-649-773-11
DMX-B4008





Connector
CN-834 BOARD
BOARD NO. 1-649-775-11
DMX-B4008



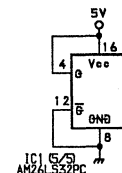
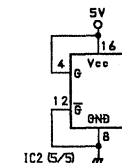
CN1 (2/4) 96P		
14A	KYTX	14
14B	-KYTX	46
14C	GND	78
15A	KYRX	15
15B	-KYRX	47
15C	GND	79
16A	KYTCK	16
16B	-KYTCK	48
16C	GND	80
13A	KYRCK	13
13B	-KYRCK	45
13C	GND	77

CN1 (3/4) 96P		
20A	TX	20
20B	RX	52
20C	RTS	84
21A	CTS	21
21B	BSR	53
21C	STR	85

CN1 (4/4) 96P		
3A	+5V	3
3B	+5V	35
3C	+5V	67
4A	+5V	4
4B	+5V	36
4C	+5V	68

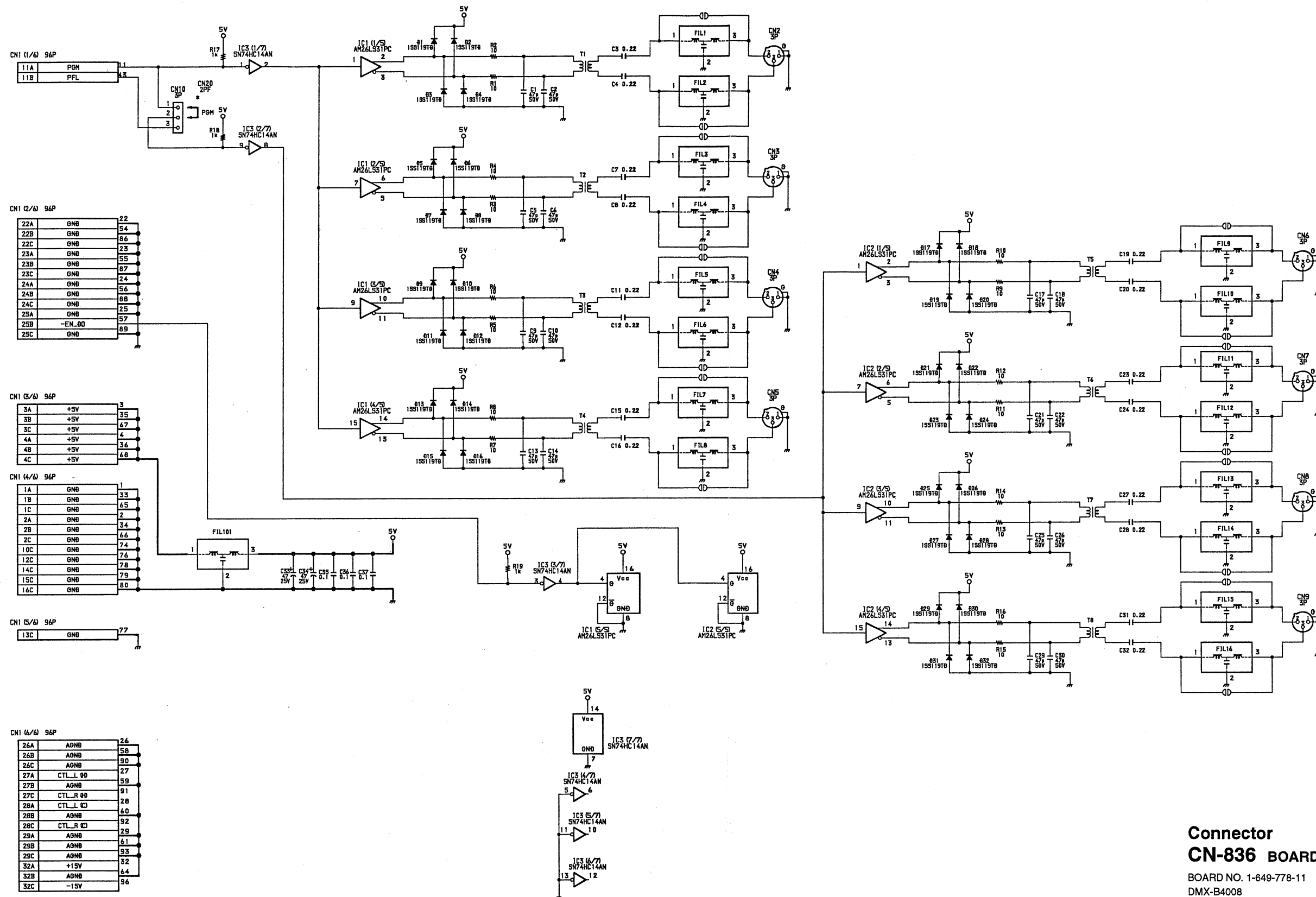
CN1 (5/4) 96P		
1A	GND	1
1B	GND	33
1C	GND	65
2A	GND	2
2B	GND	34
2C	GND	66
10C	GND	74
12C	GND	76

CN1 (6/4) 96P		
22A	GND	22
22B	GND	54
22C	GND	86
23A	GND	23
23B	GND	55
23C	GND	87
24A	GND	24
24B	GND	56
24C	GND	88
25A	GND	25
25B	GND	57
25C	GND	89
26A	GND	26
26B	GND	58
26C	GND	90
27A	GND	27
27B	GND	59
27C	GND	91
28A	GND	28
28B	GND	60
28C	GND	92
29A	GND	29
29B	GND	61
29C	GND	93
30A	GND	30
30B	GND	62
30C	GND	94
31A	GND	31
31B	GND	63
31C	GND	95
32A	GND	32
32B	GND	64
32C	GND	96



Connector CN-835 BOARD

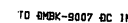
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DMX-B4008

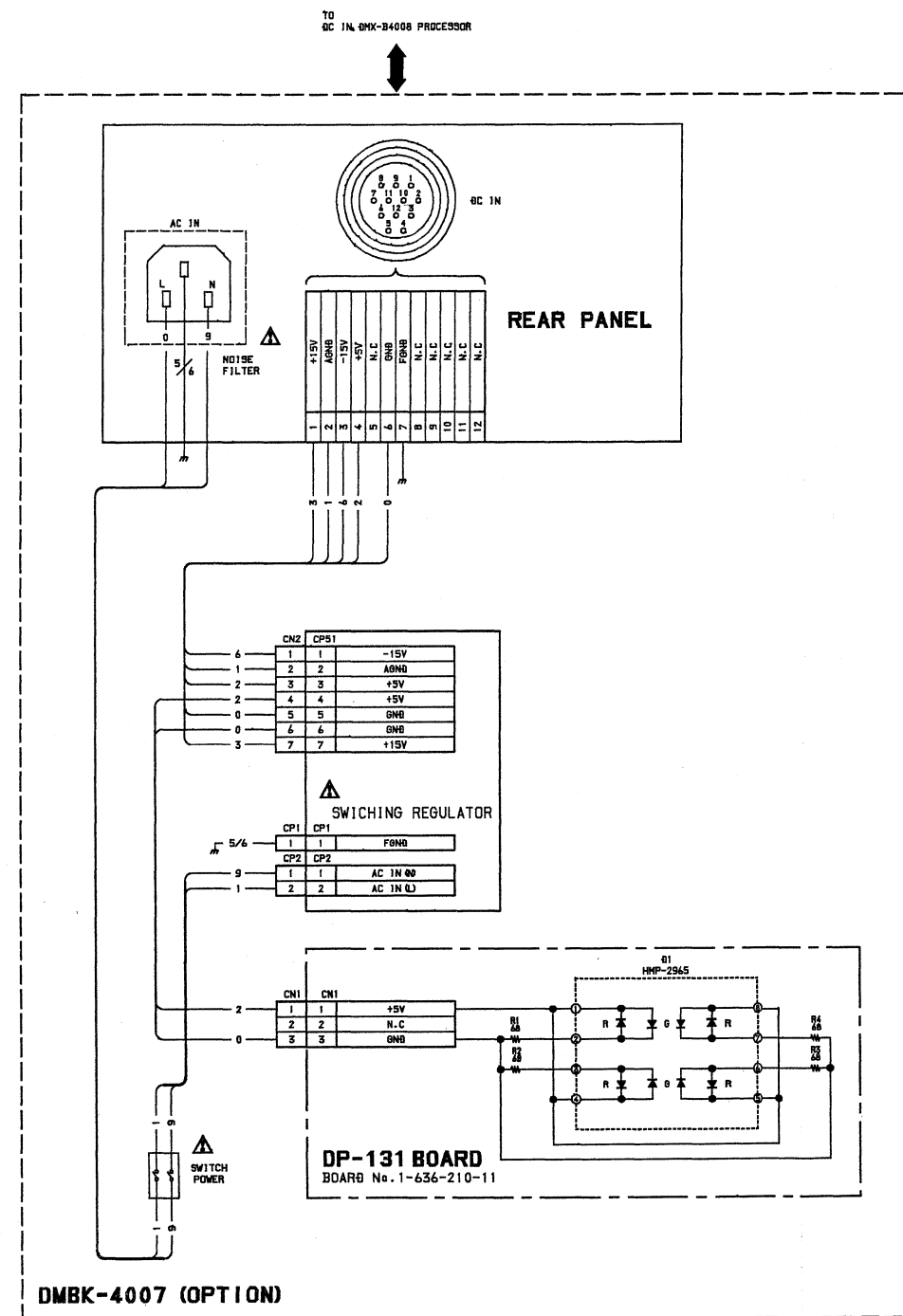
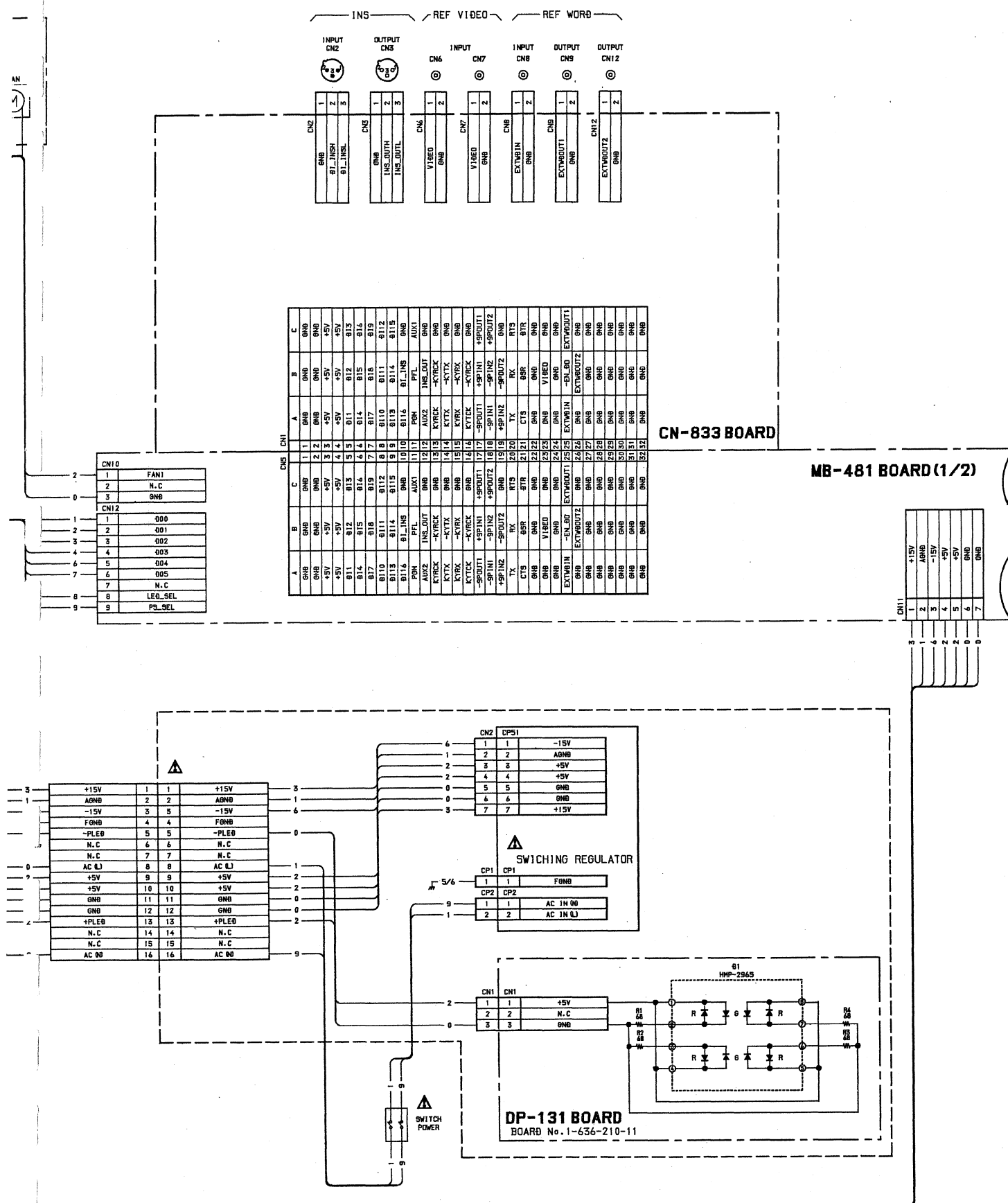


Connector
CN-836 BOARD
BOARD NO. 1-649-778-11
DMX-B4008

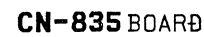
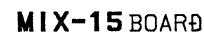
CN-837
DMX-B4008 PROCESSOR

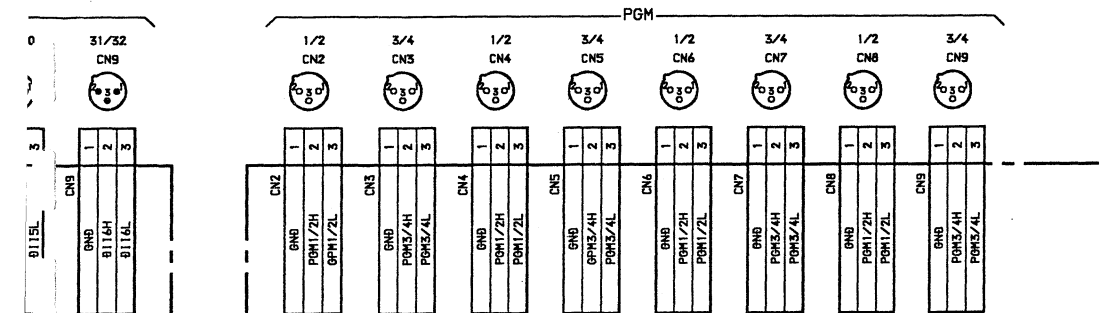






PROCESSOR
FRAME WIRING (1/2)
DP-131, PS-313 BOARD
DMX-B4008

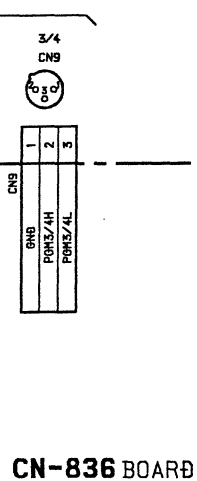




135 BOARD

GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	GNP	
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DIO-26 BOARD



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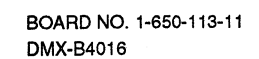
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CPU-144 (1/11)
DMX-B4016 PROCESSOR



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CPU-144 (2/11)
DMX-B4016 PROCESSOR



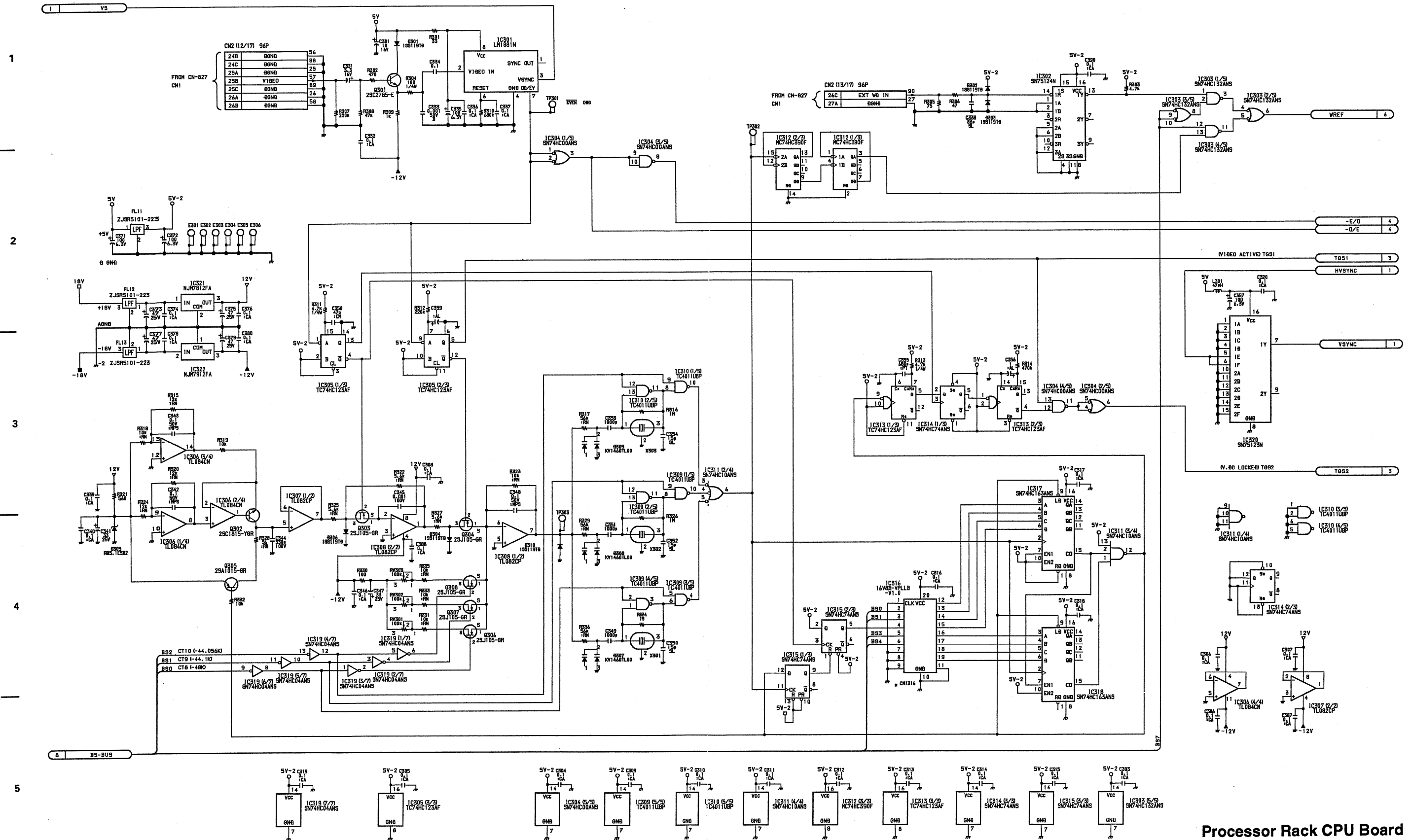
CPU-144 (3/11)
DMX-B4016 PROCESSOR



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CPU-144 (4/11)
DMX-B4016 PROCESSOR

CPU-144 (4/11)
DMX-B4016 PROCESSOR



Processor Rack CPU Board
CPU-144 BOARD (4/11)

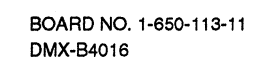
BOARD NO. 1-650-113-11
DMX-B4016

CPU-144 (5/11)
DMX-B4016 PROCESSOR



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CPU-144 (6/11)
DMX-B4016 PROCESSOR



CPU-144 (7/11)
DMX-B4016 PROCESSOR



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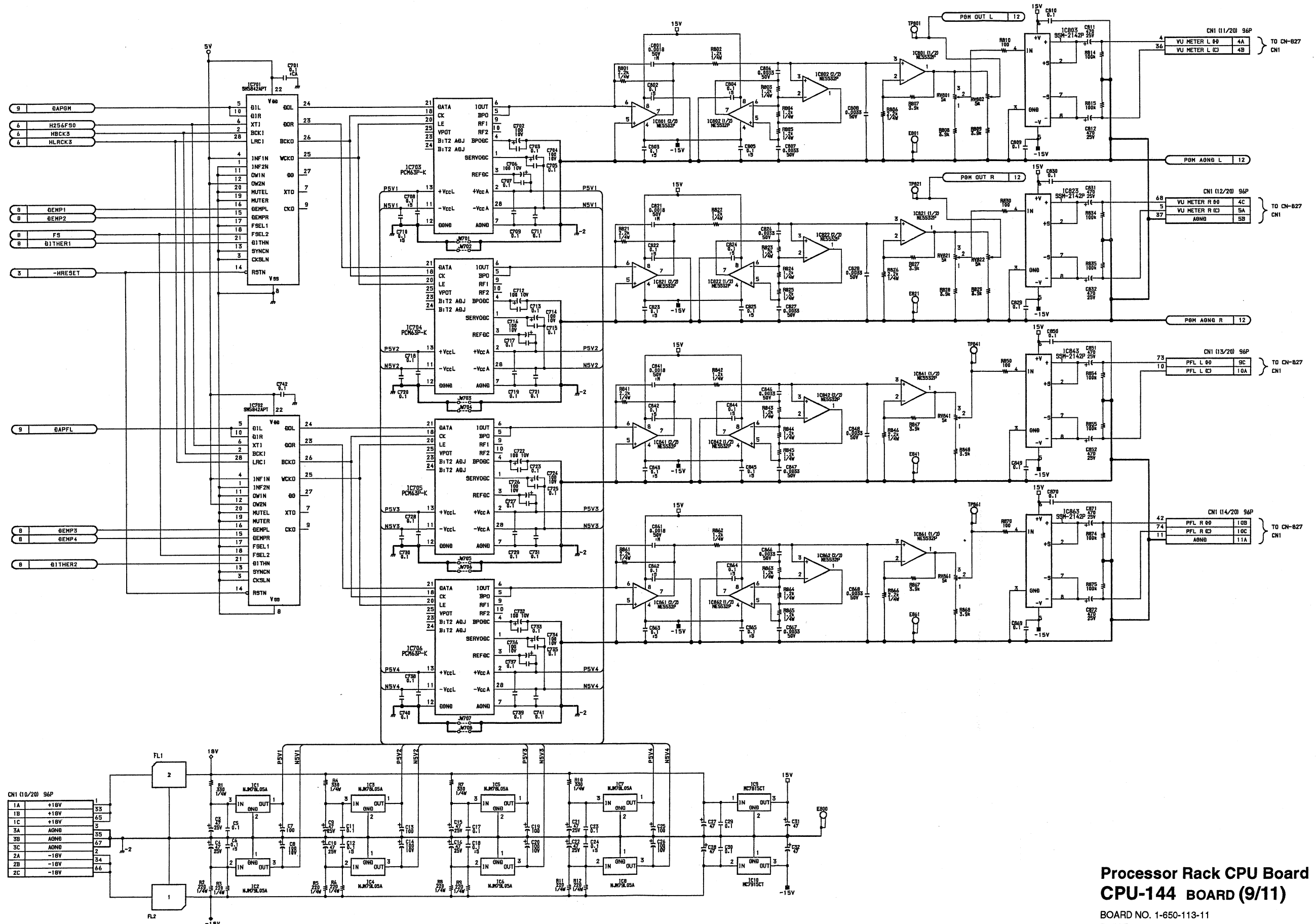
CPU-144 (8/11)
DMX-B4016 PROCESSOR



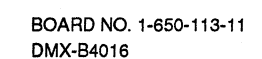
BOARD NO. 1-650-113-11
DMX-B4016

CPU-144 (9/11)
DMX-B4016 PROCESSOR

CPU-144 (9/11)
DMX-B4016 PROCESSOR



CPU-144 (10/11)
DMX-B4016 PROCESSOR

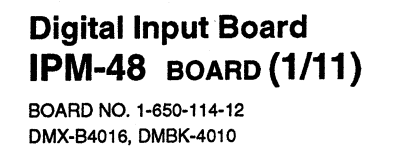


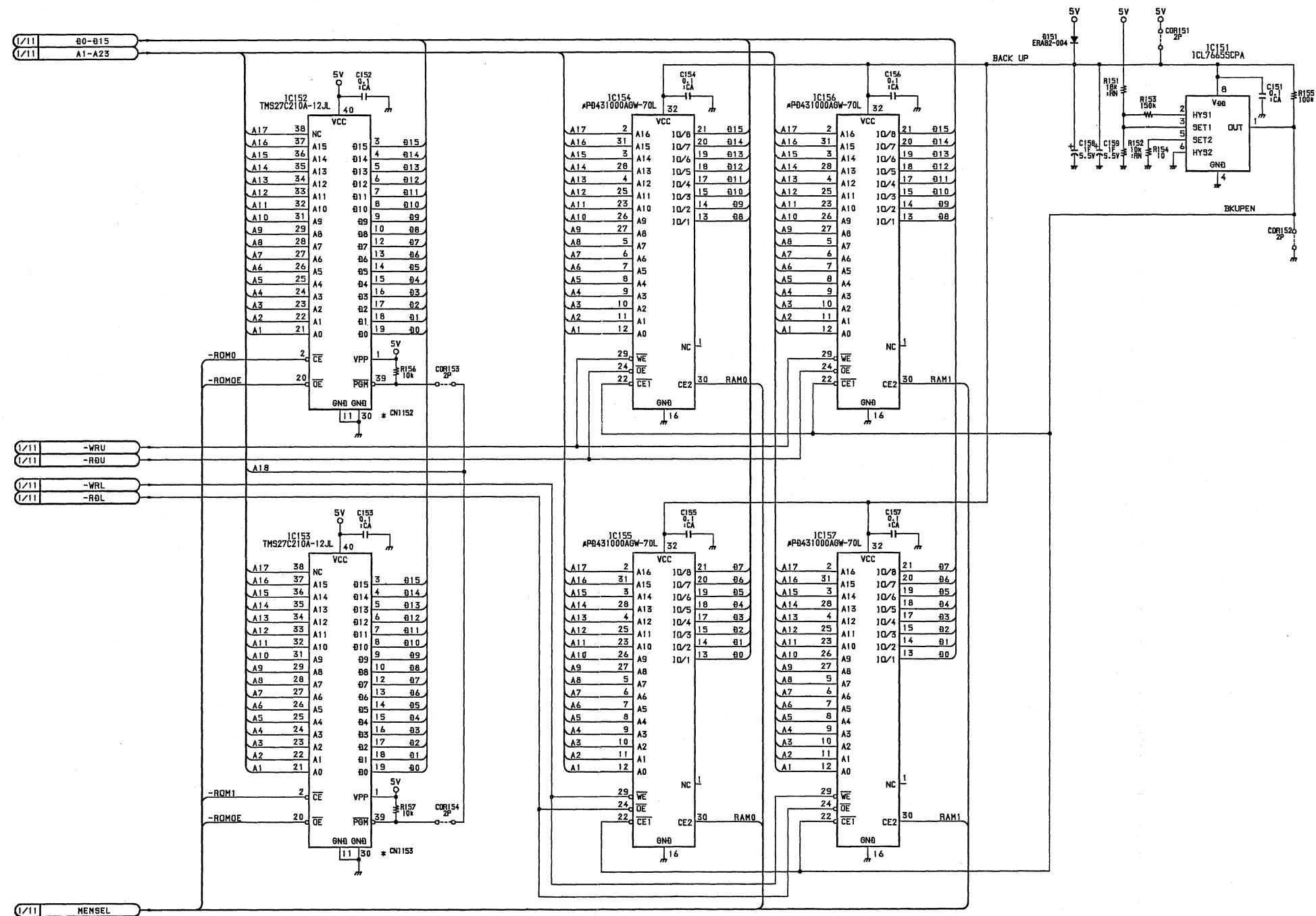
CPU-144 (11/11)
DMX-B4016 PROCESSOR



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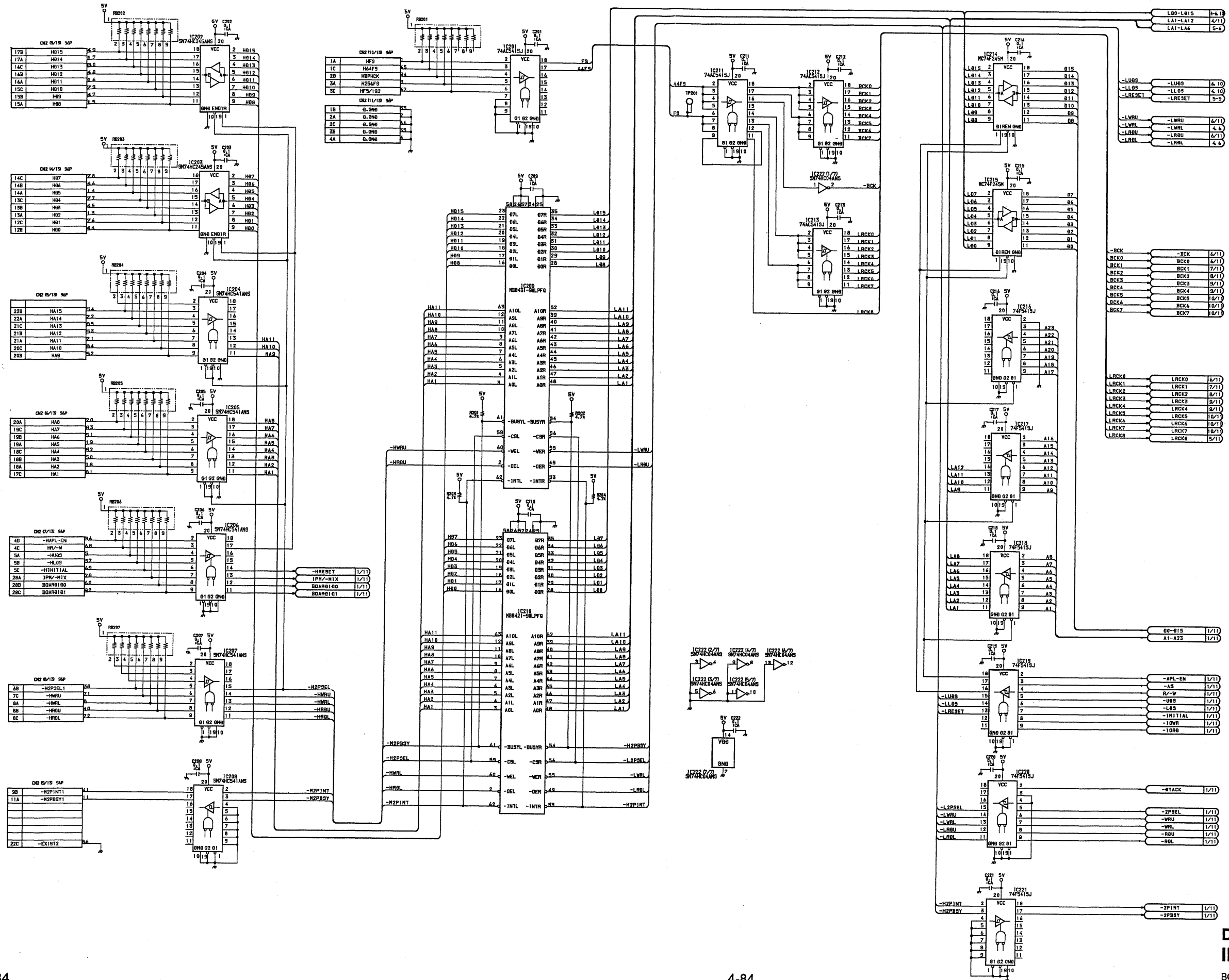
IPM-48 (1/11)
DMX-B4016 PROCESSOR, DMBK-4010 (OPTION)



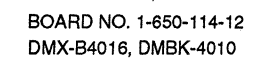


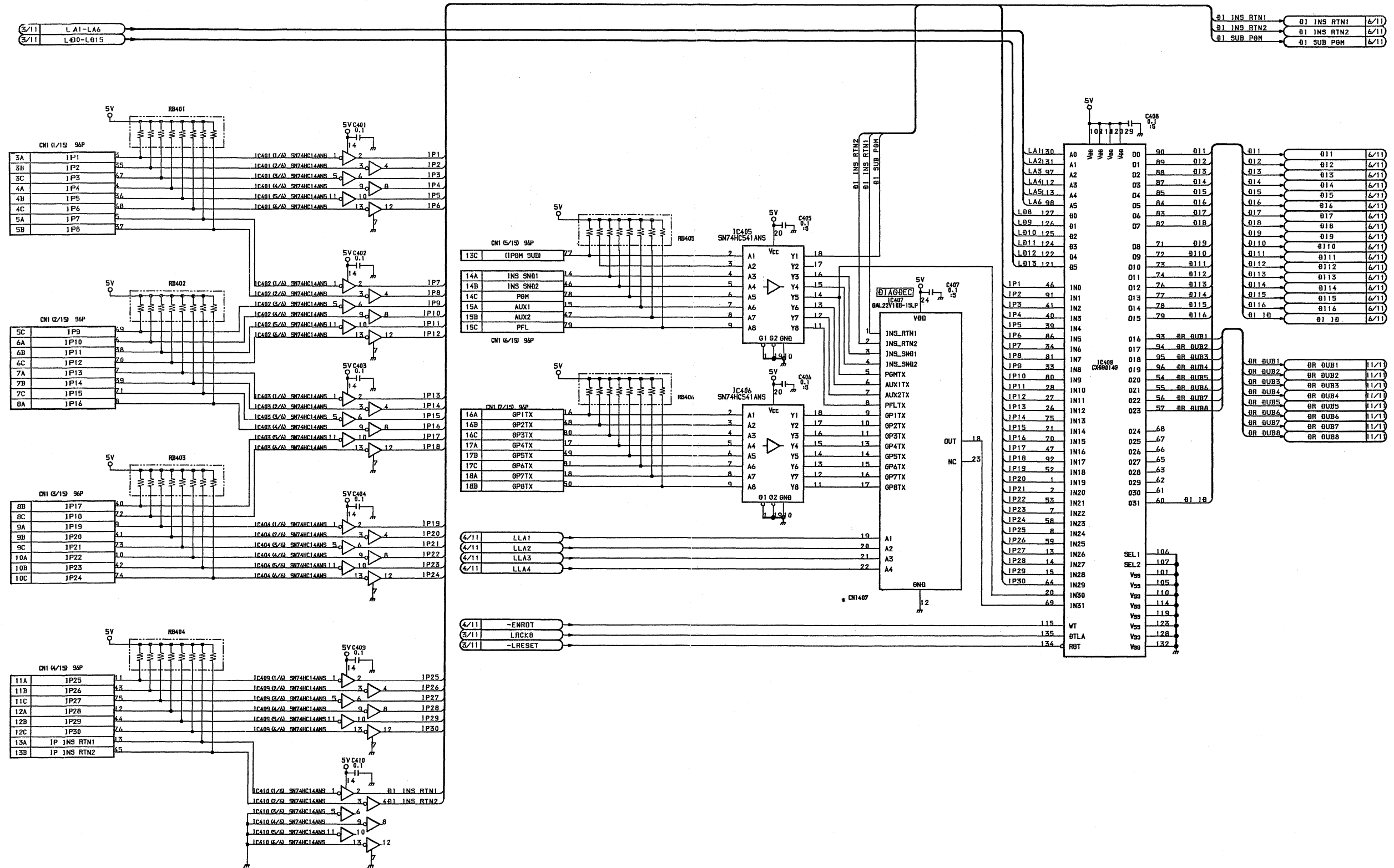
Digital Input Board IPM-48 BOARD (2/11)

BOARD NO. 1-650-114-12
DMX-B4016, DMBK-4010



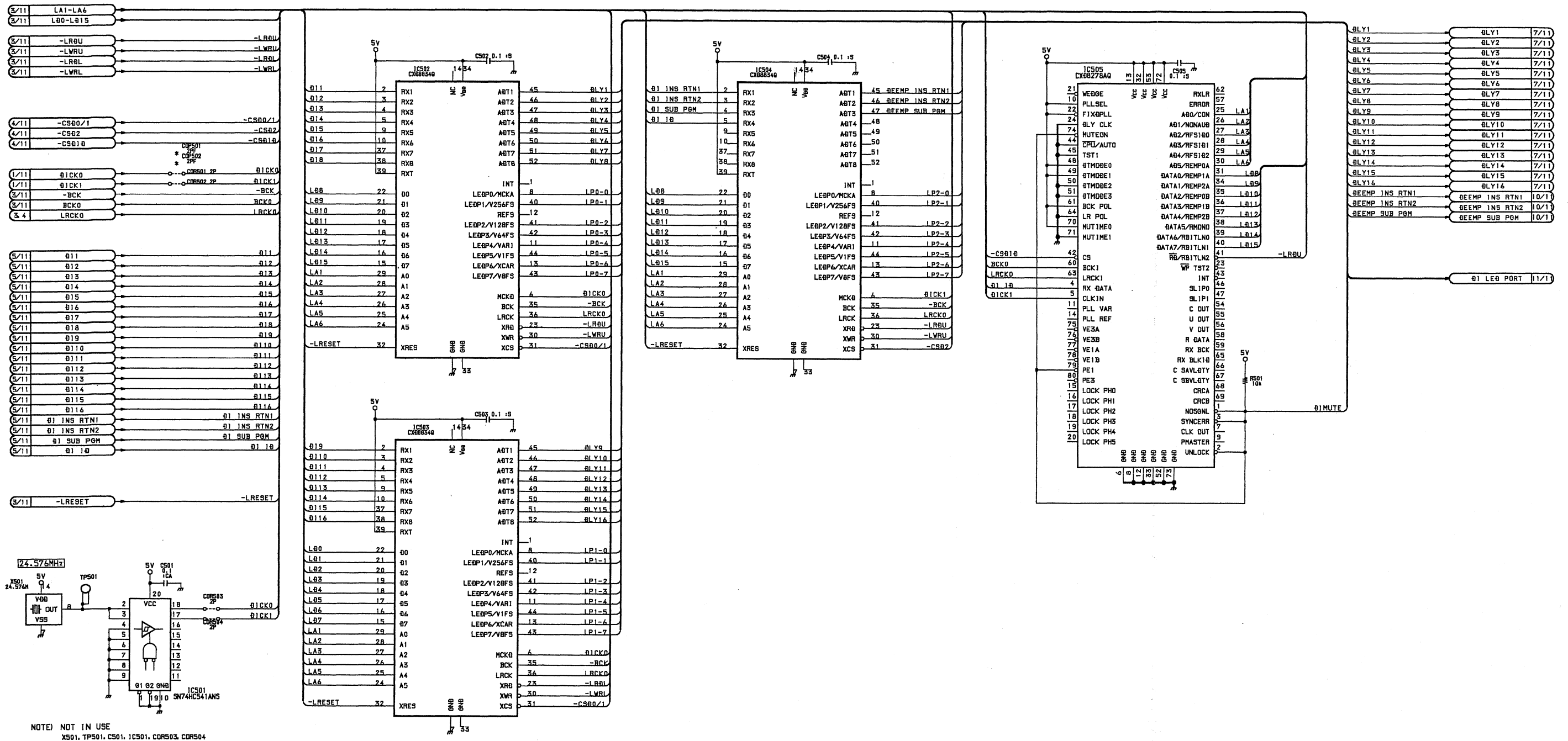
IPM-48 (4/11)
DMX-B4016 PROCESSOR, DMBK-4010 (OPTION)





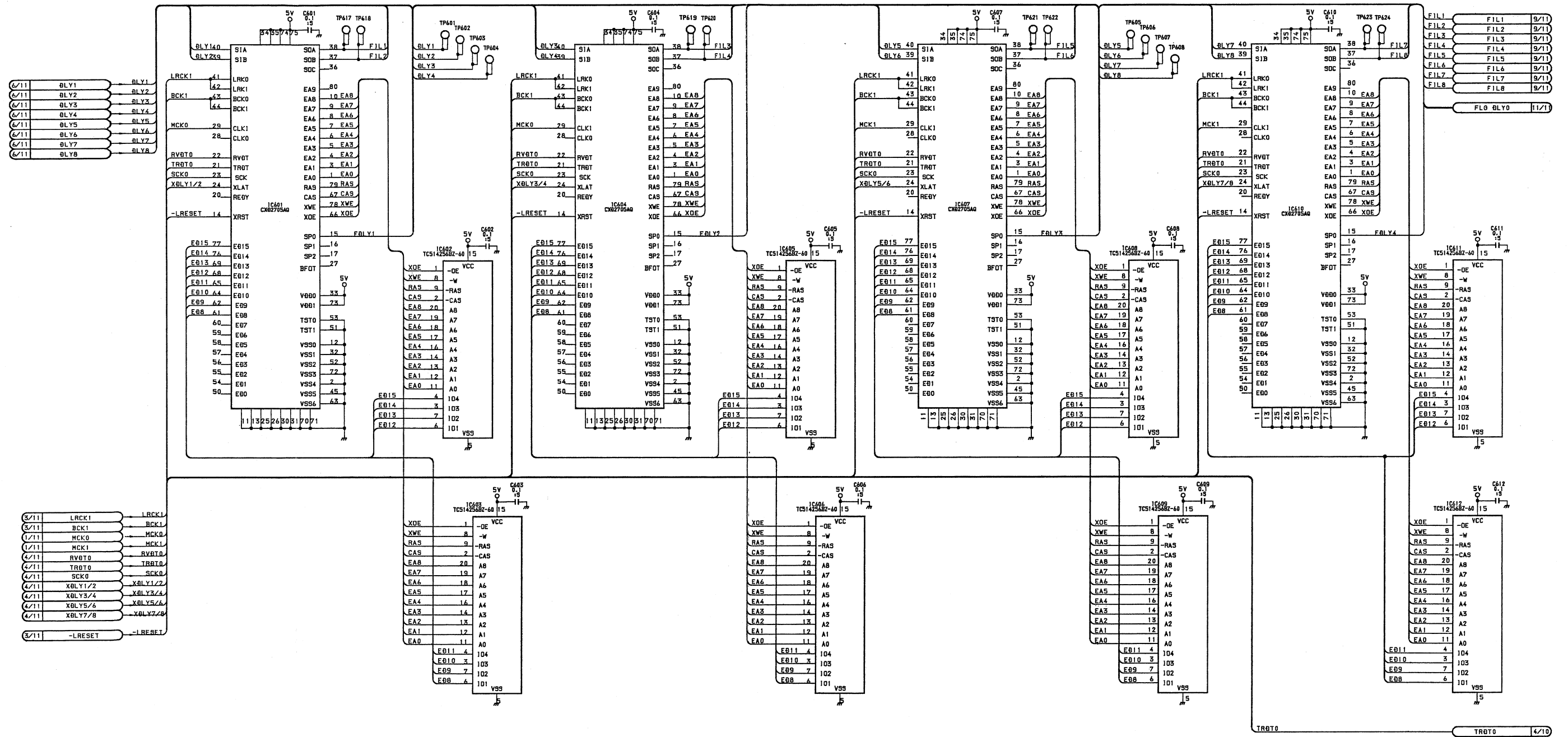
Digital Input Board IPM-48 BOARD (5/11)

BOARD NO. 1-650-114-12
DMX-B4016, DMBK-4010



Digital Input Board IPM-48 BOARD (6/11)

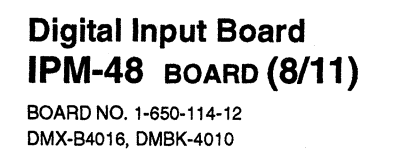
BOARD NO. 1-650-114-12
DMX-B4016, DMBK-4010

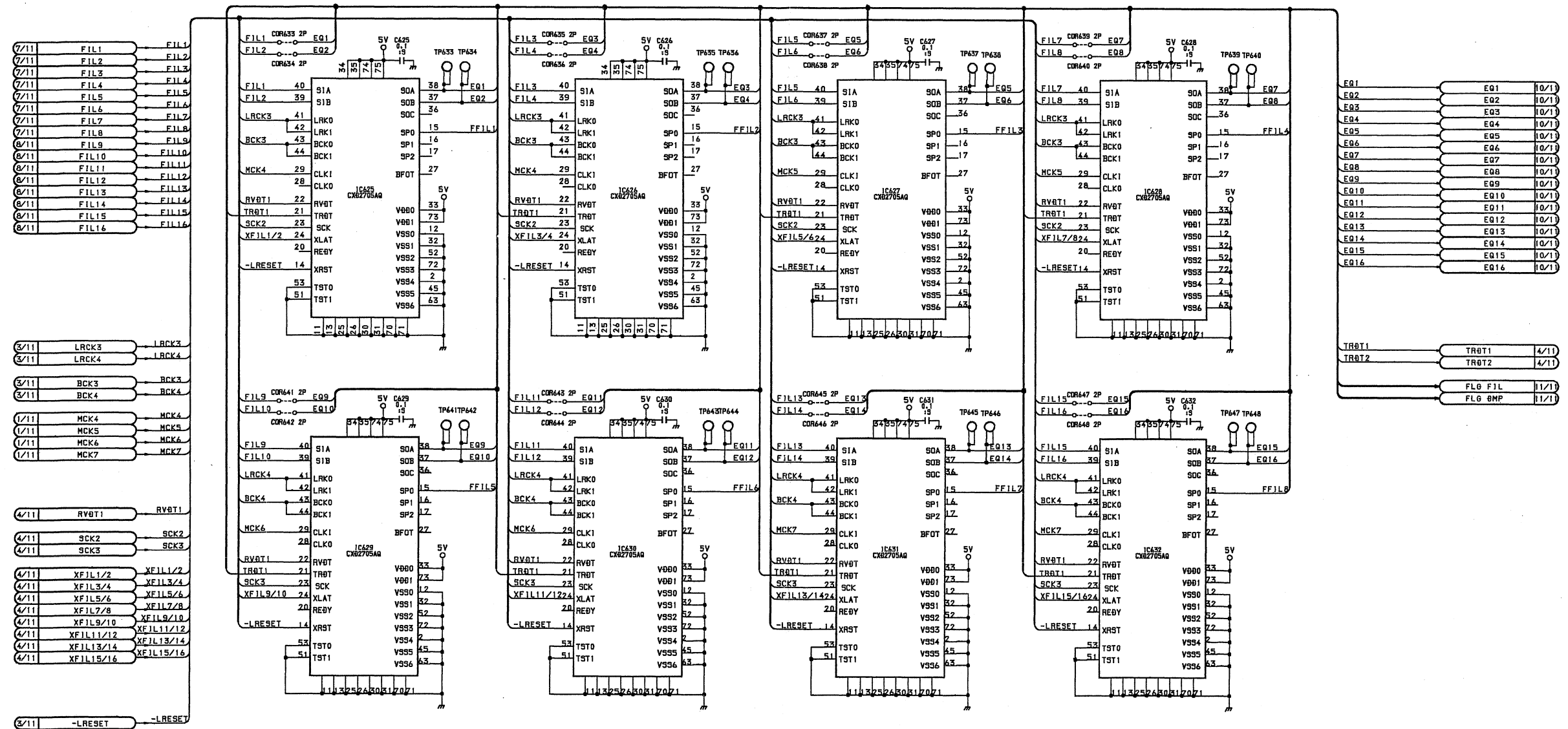


Digital Input Board IPM-48 BOARD (7/11)

BOARD NO. 1-650-114-12
DMX-B4016, DMBK-4010

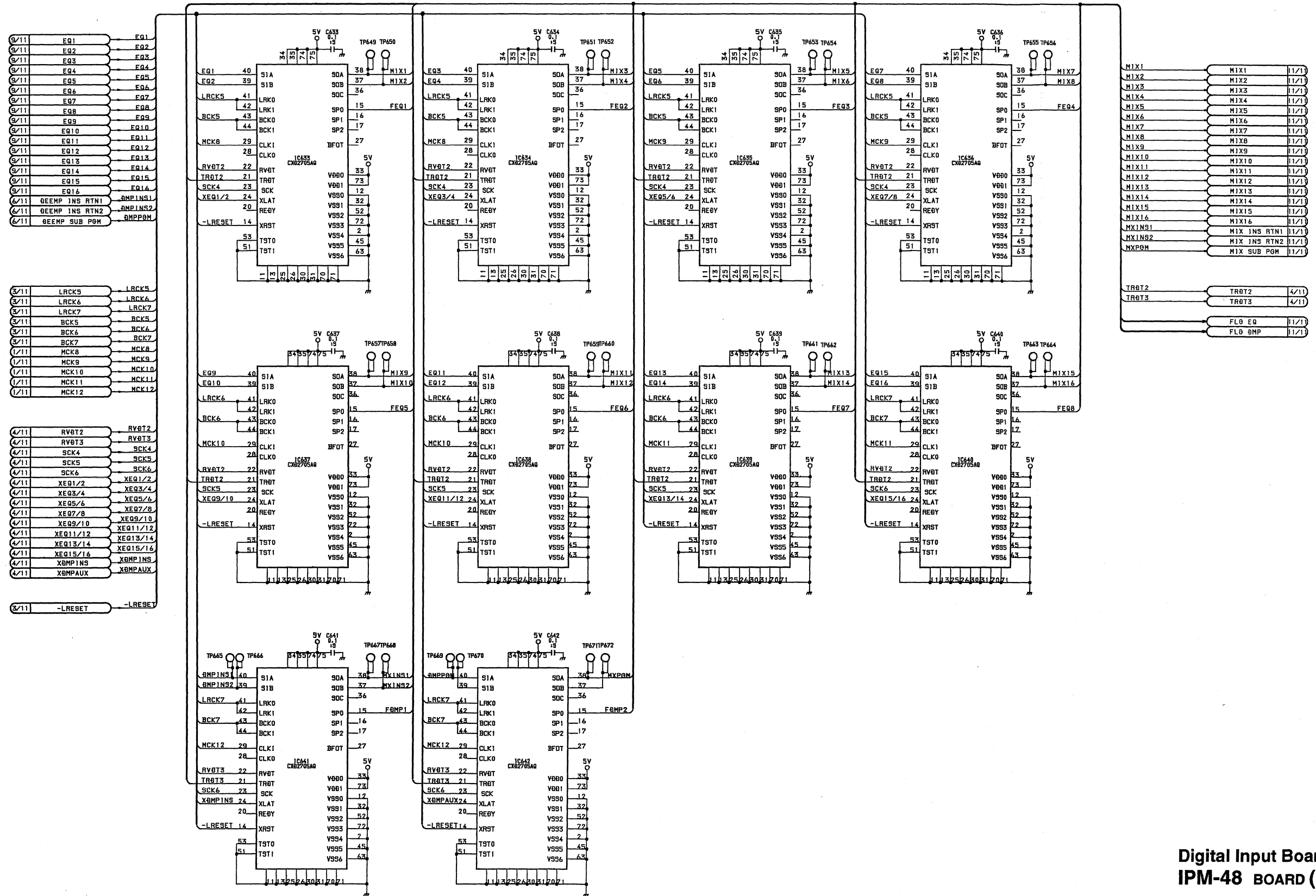
IPM-48 (8/11)
DMX-B4016 PROCESSOR, DMBK-4010 (OPTION)





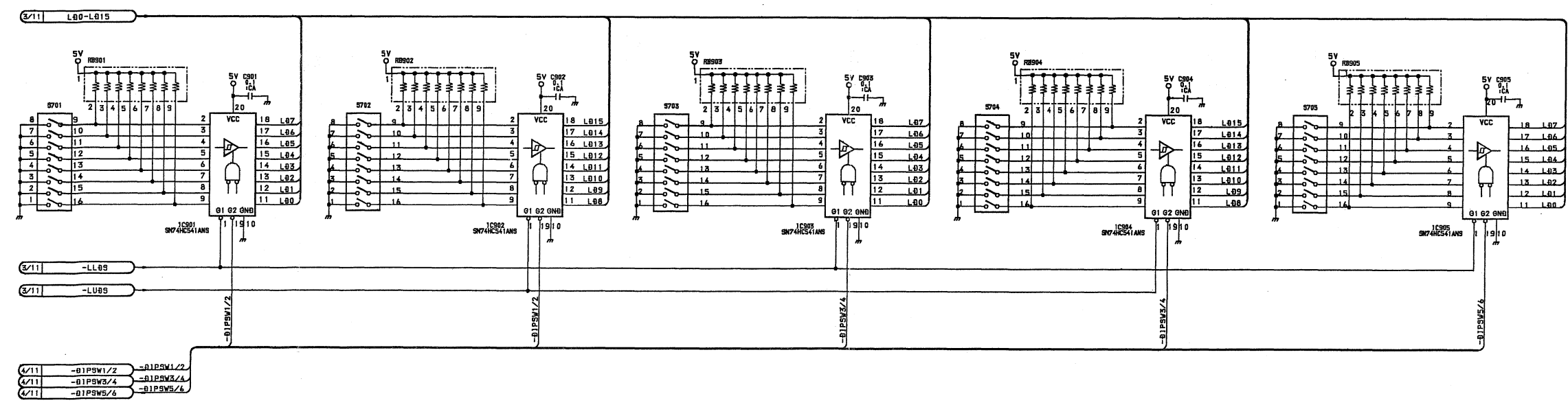
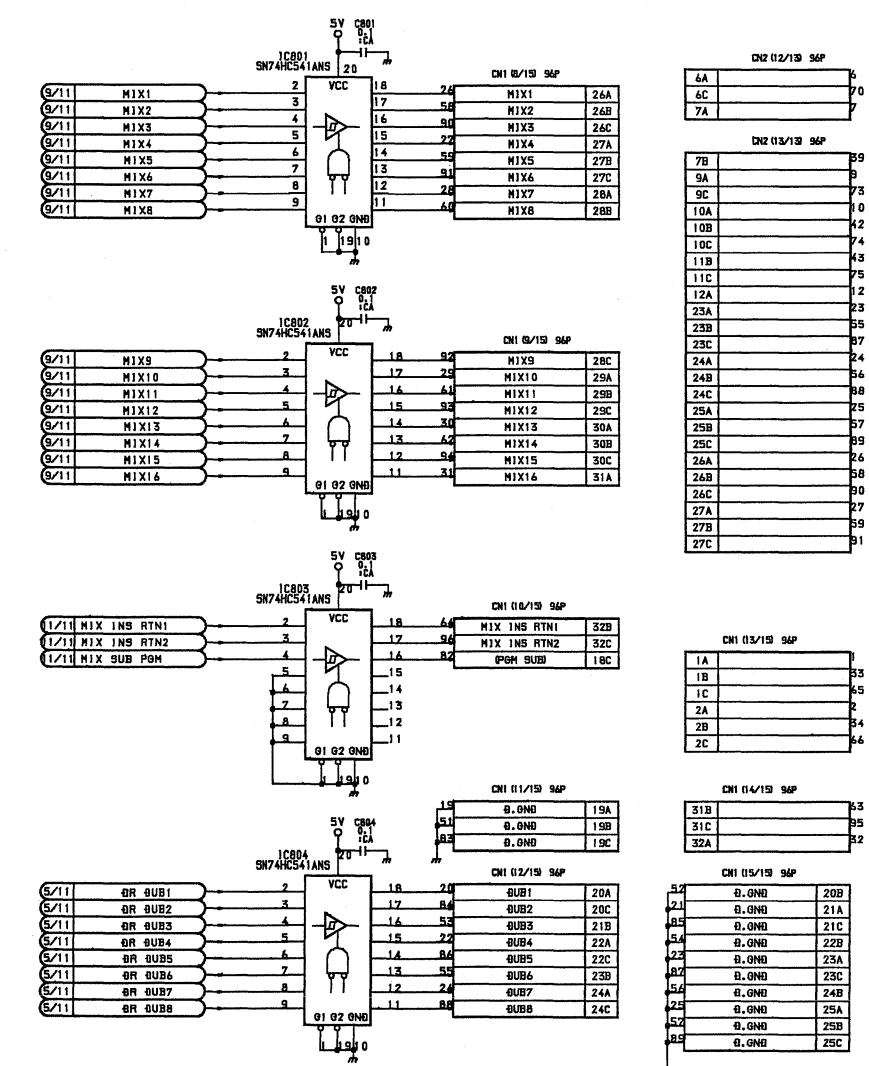
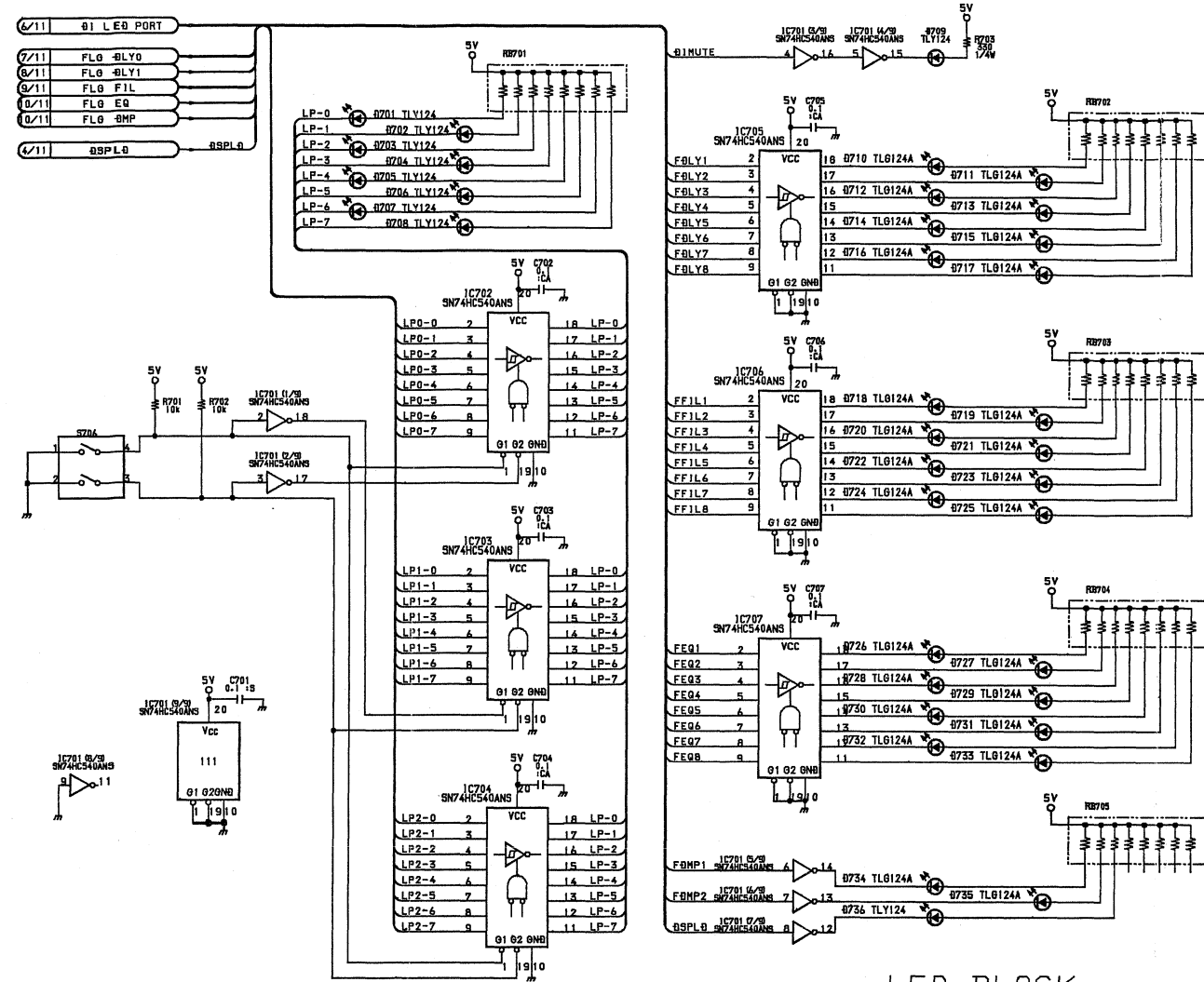
Digital Input Board IPM-48 BOARD (9/11)

BOARD NO. 1-650-114-12
DMX-B4016, DMBK-4010



Digital Input Board
IPM-48 BOARD (10/11)

BOARD NO. 1-650-114-12
DMX-B4016, DMBK-4010

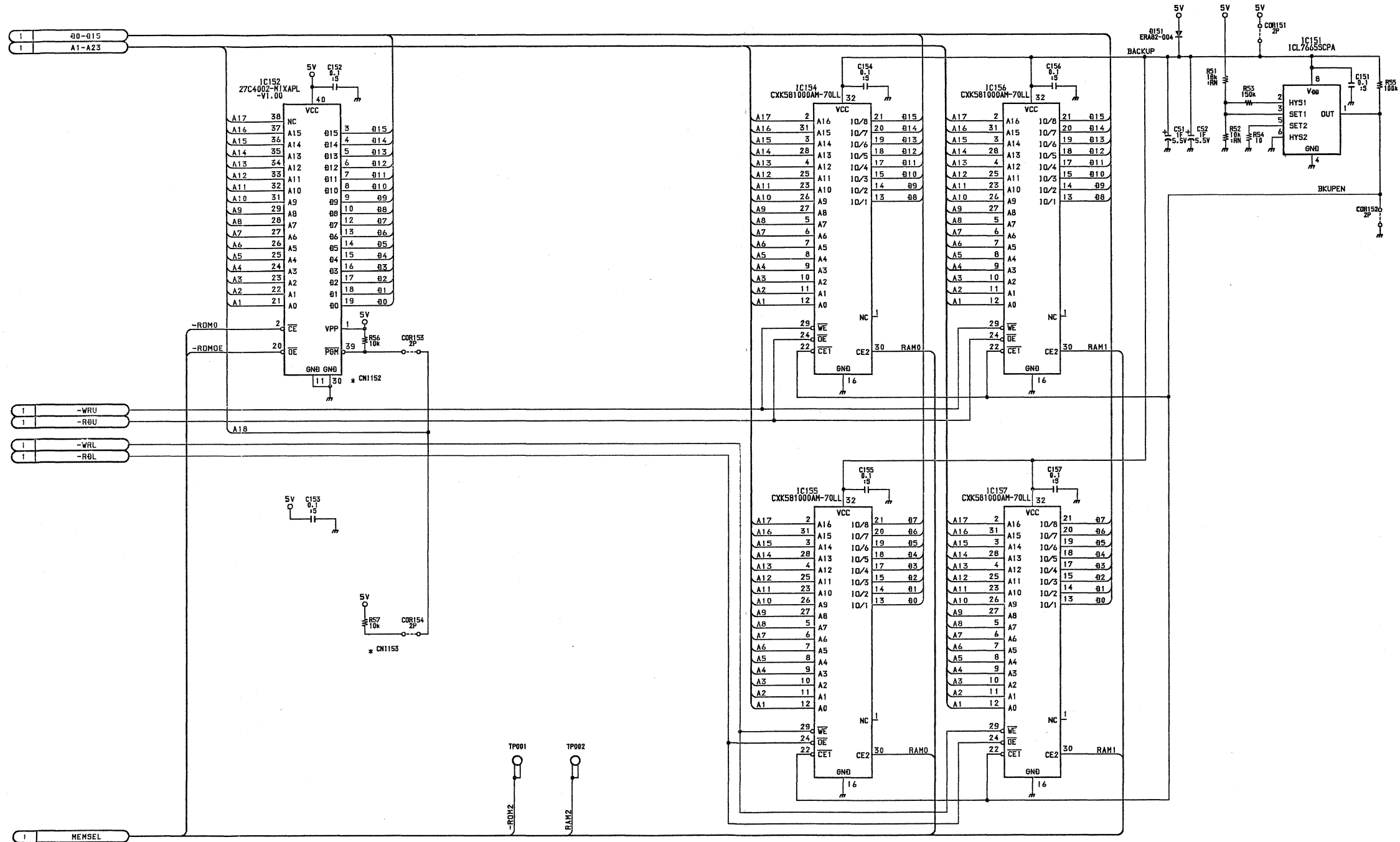


Digital Input Board
IPM-48 BOARD (11/11)
BOARD NO. 1-650-114-12
DMX-B4016, DMBK-4010

MIX-16 (1/13)
DMX-B4016 PROCESSOR, DMBK-4010/4011 (OPTION)



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Mixing Board MIX-16 BOARD (2/13)

BOARD NO. 1-650-115-11
 DMX-B4016, DMBK-4010/4011

MIX-16 (3/13)
DMX-B4016 PROCESSOR, DMBK-4010/4011 (OPTION)



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MIX-16 (4/13)
DMX-B4016 PROCESSOR, DMBK-4010/4011 (OPTION)



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4-96

A

B

C

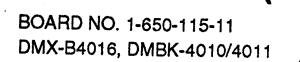
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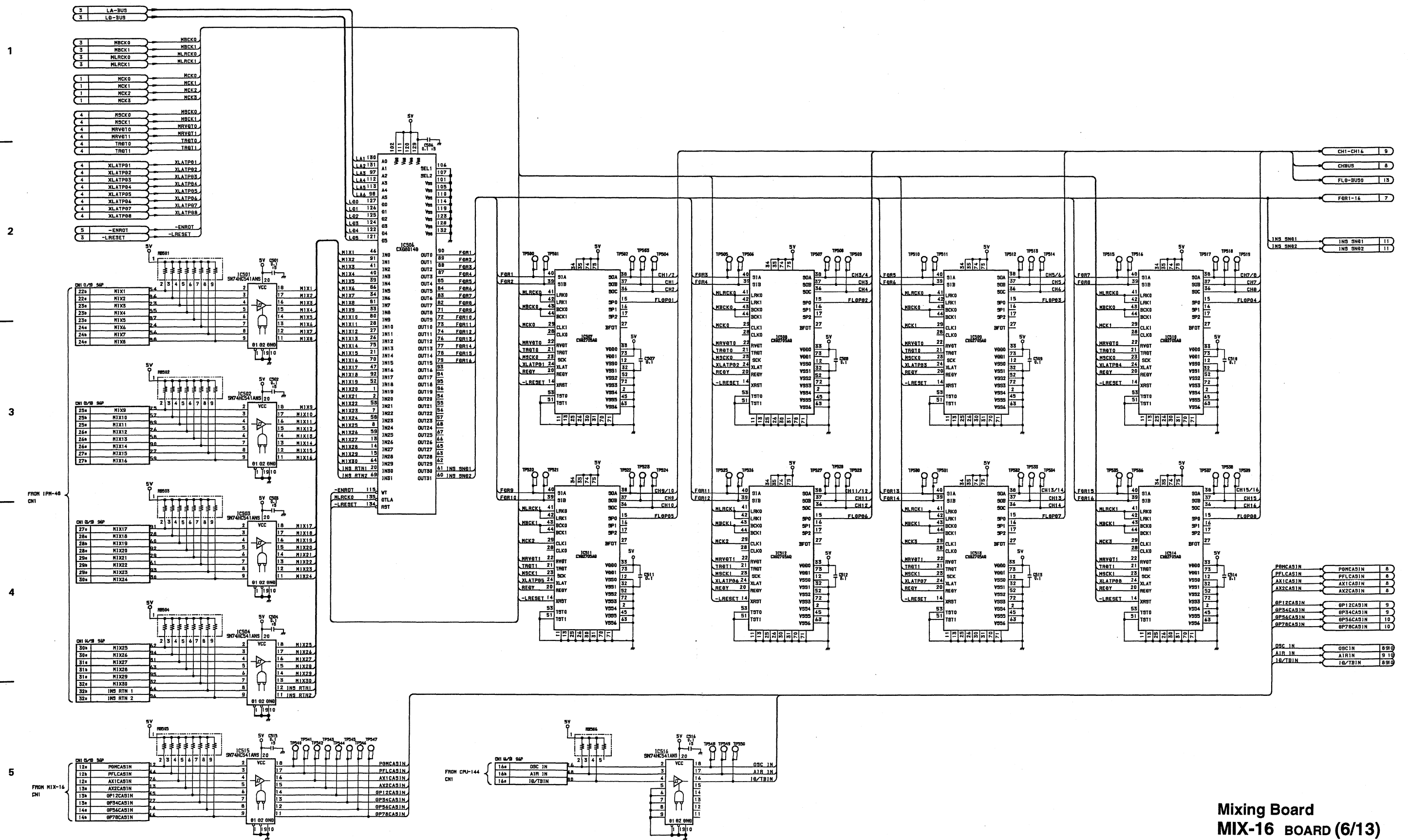
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F

G

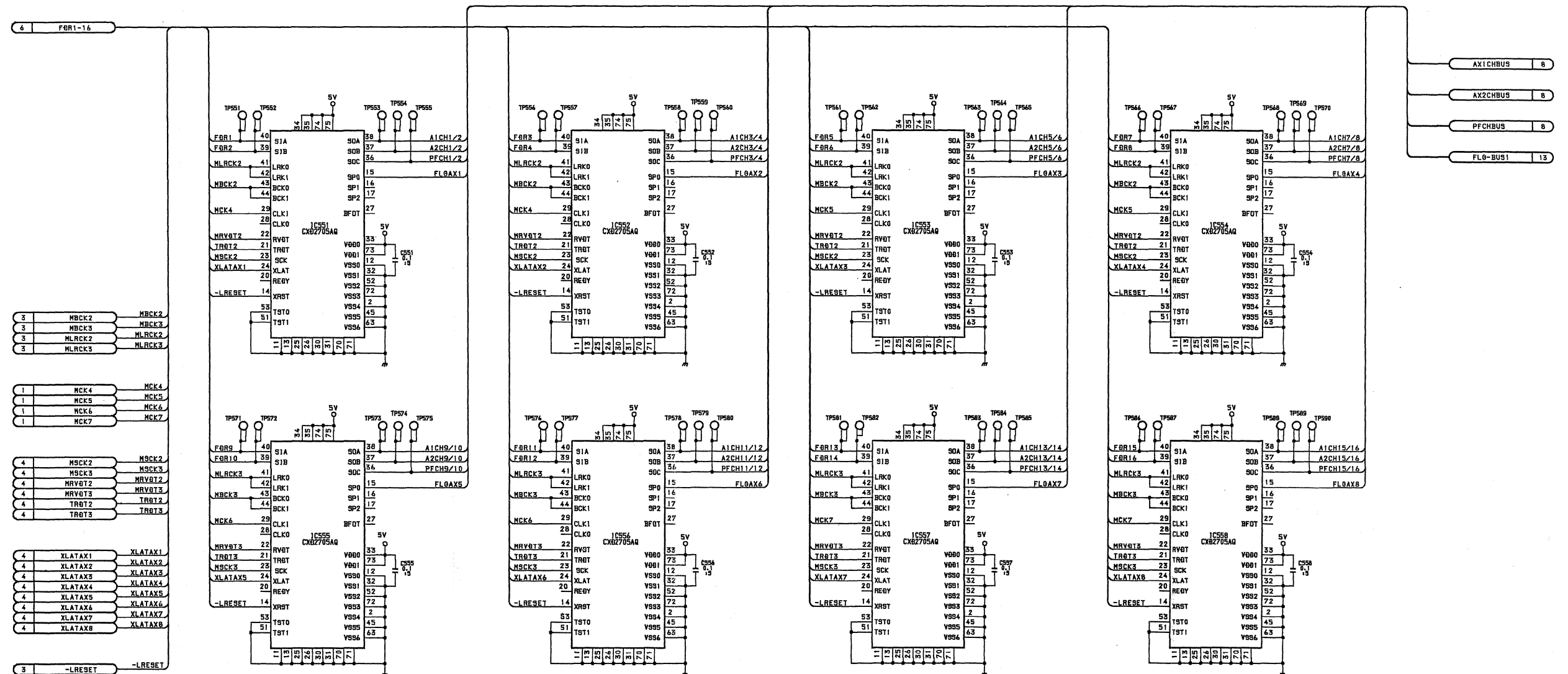
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Mixing Board
MIX-16 BOARD (6/13)

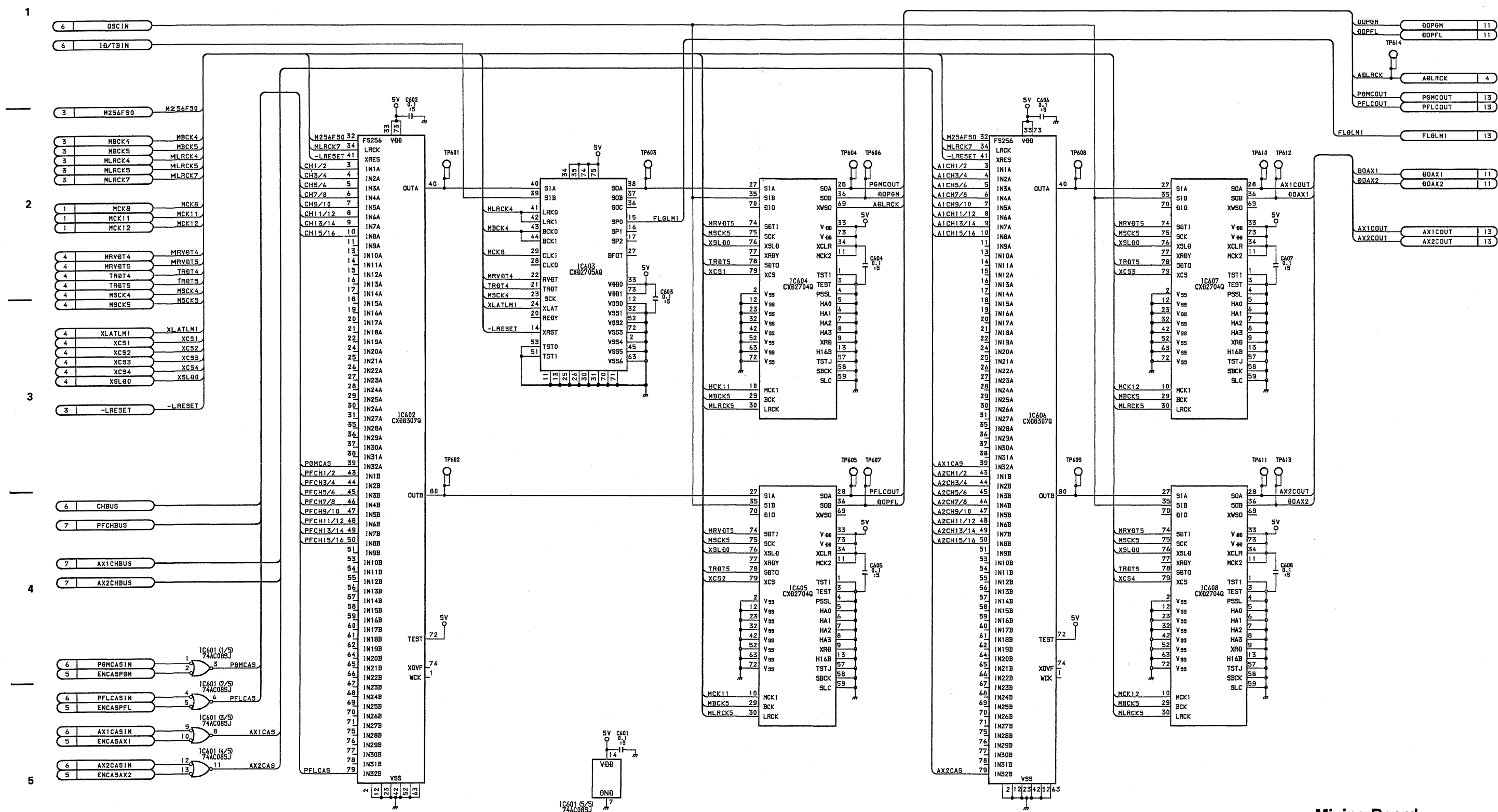
BOARD NO. 1-650-115-11
DMX-B4016, DMBK-4010/4011



Mixing Board
MIX-16 BOARD (7/13)

BOARD NO. 1-650-115-11
DMX-B4016, DMBK-4010/4011

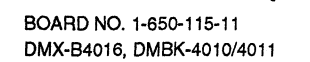
MIX-16 (8/13)
DMX-B4016 PROCESSOR, DMBK-4010/4011 (OPTION)

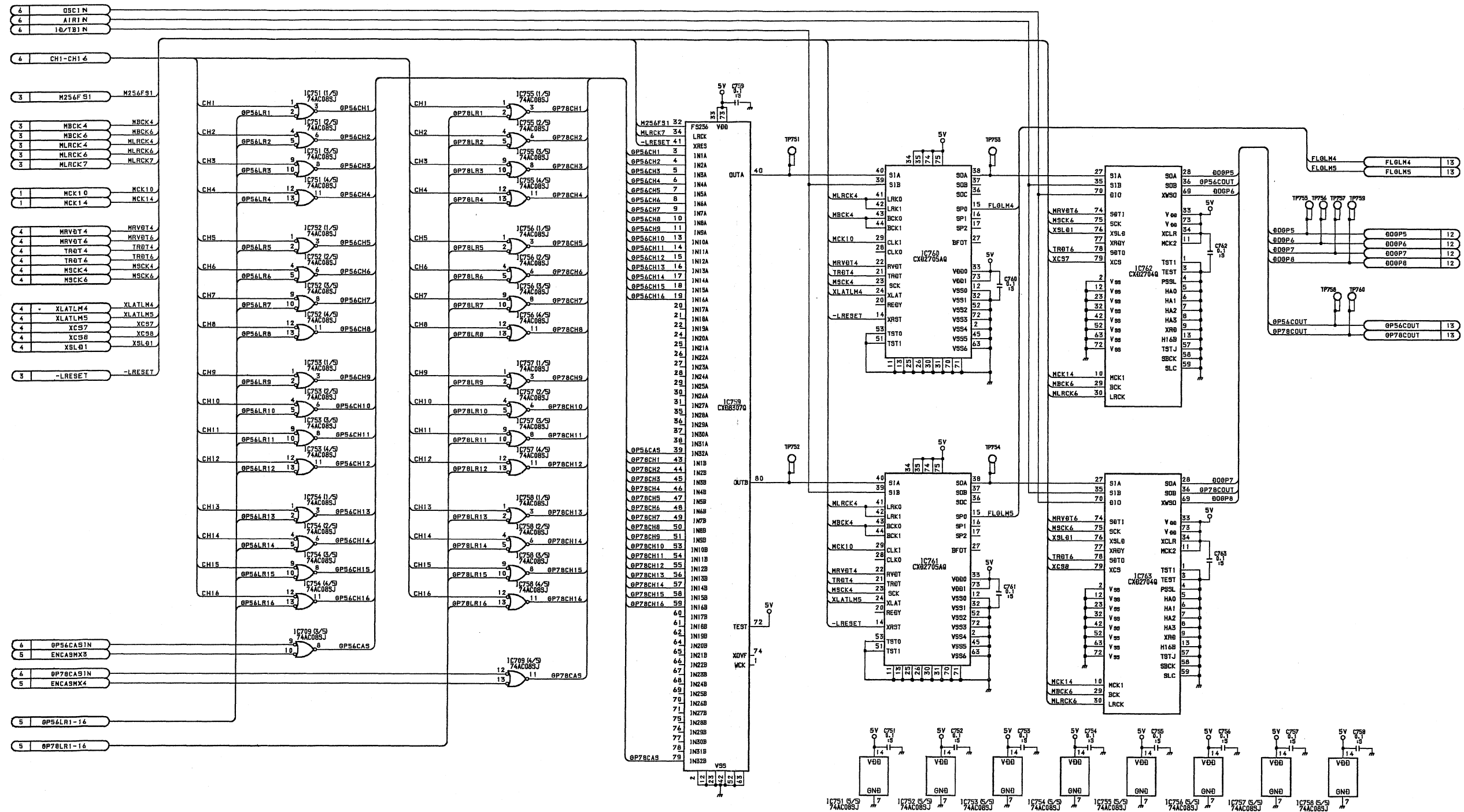


Mixing Board

MIX-16 BOARD (8/13)

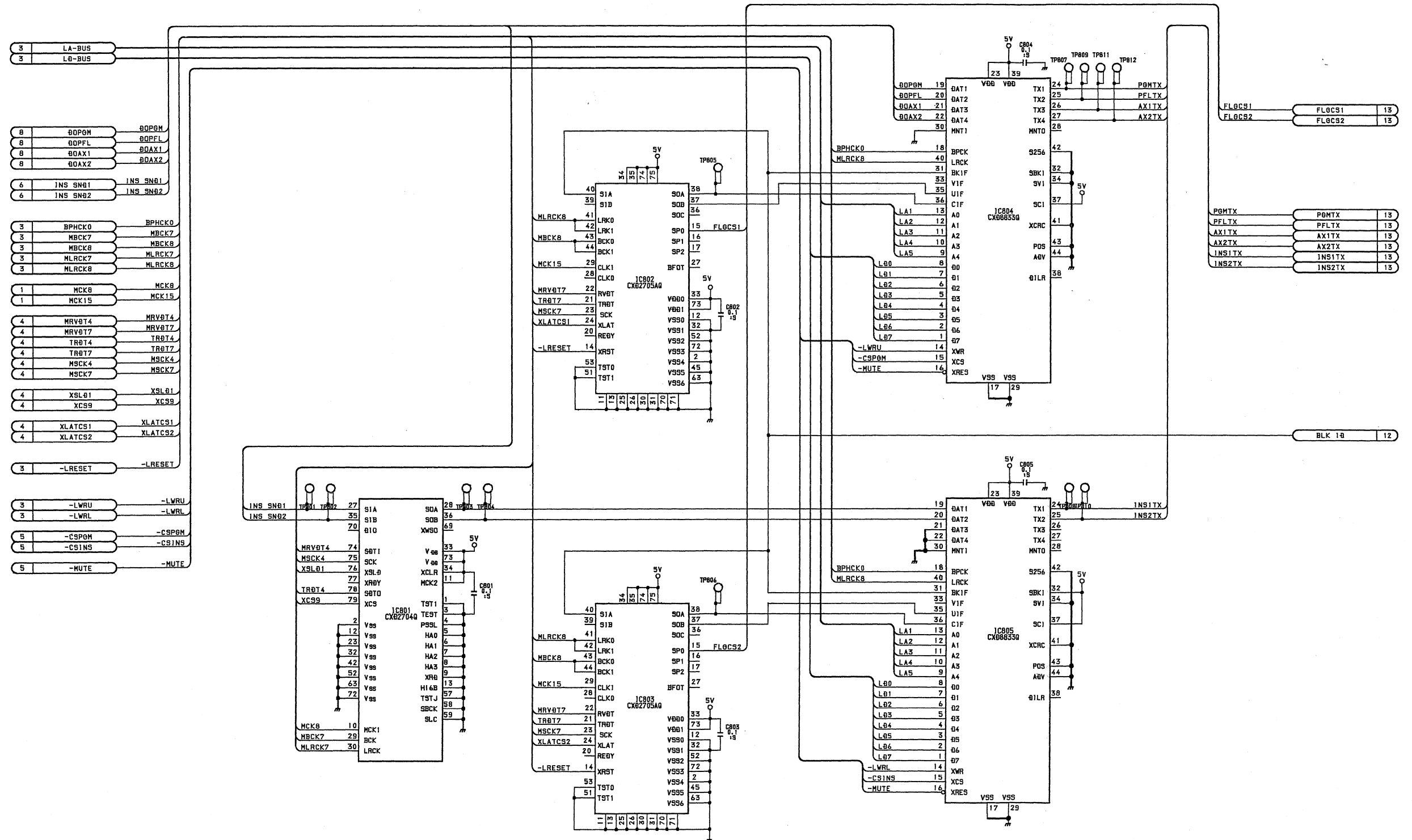
BOARD NO. 1-650-115-11
DMX-B4016, DMBK-4010/4011





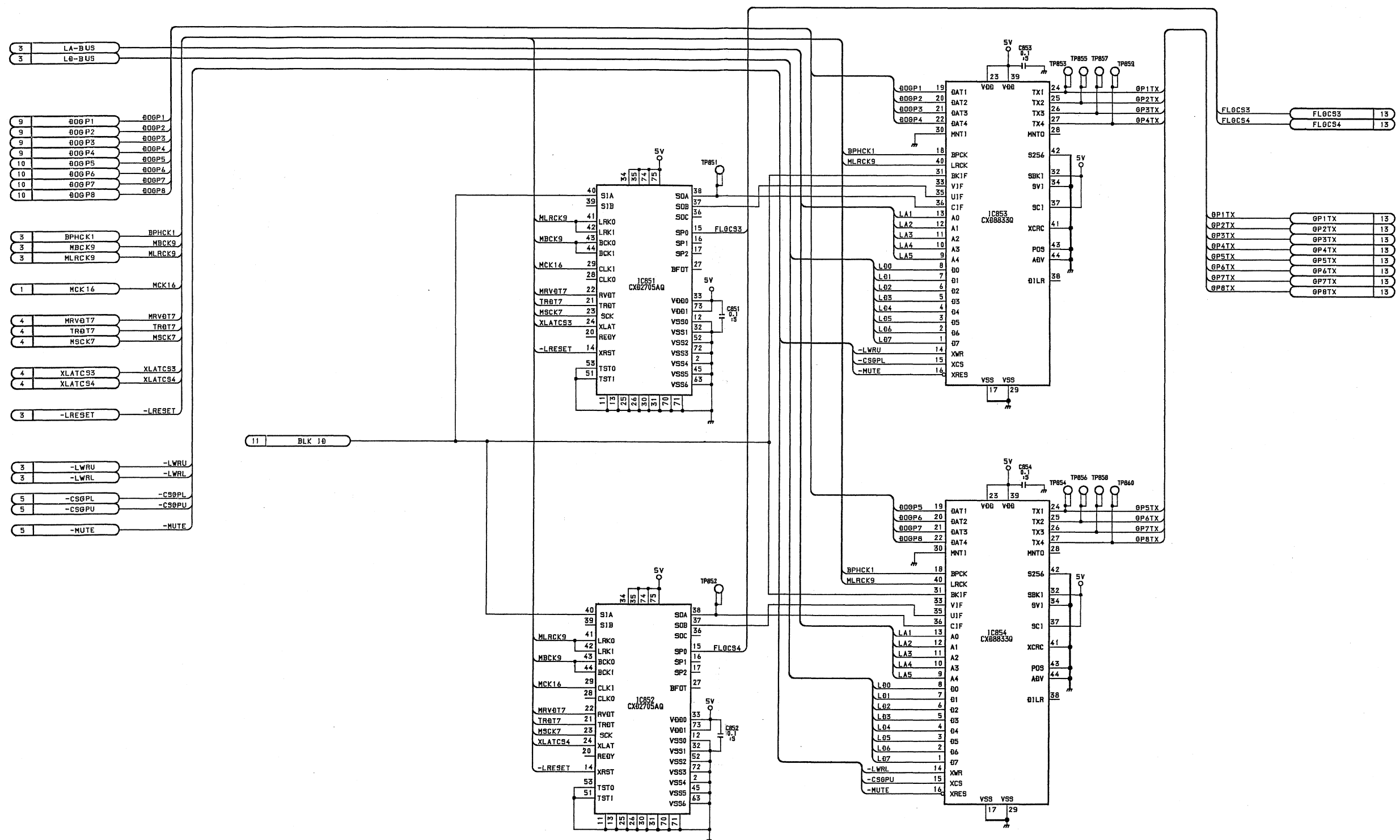
Mixing Board MIX-16 BOARD (10/13)

BOARD NO. 1-650-115-11
DMX-B4016, DMBK-4010/4011



Mixing Board MIX-16 BOARD (11/13)

BOARD NO. 1-650-115-11
DMX-B4016, DMBK-4010/4011



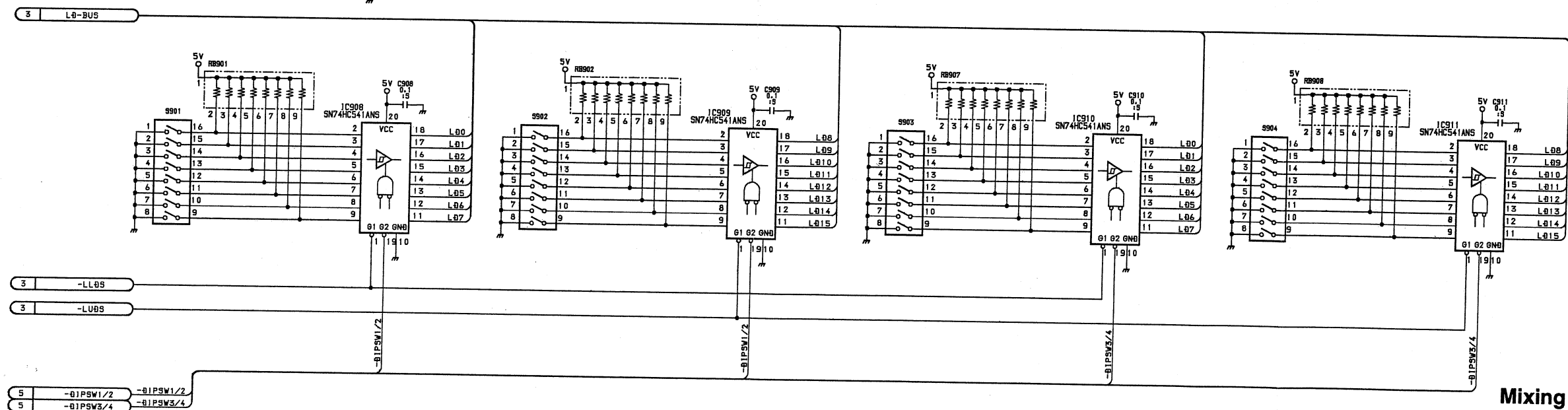
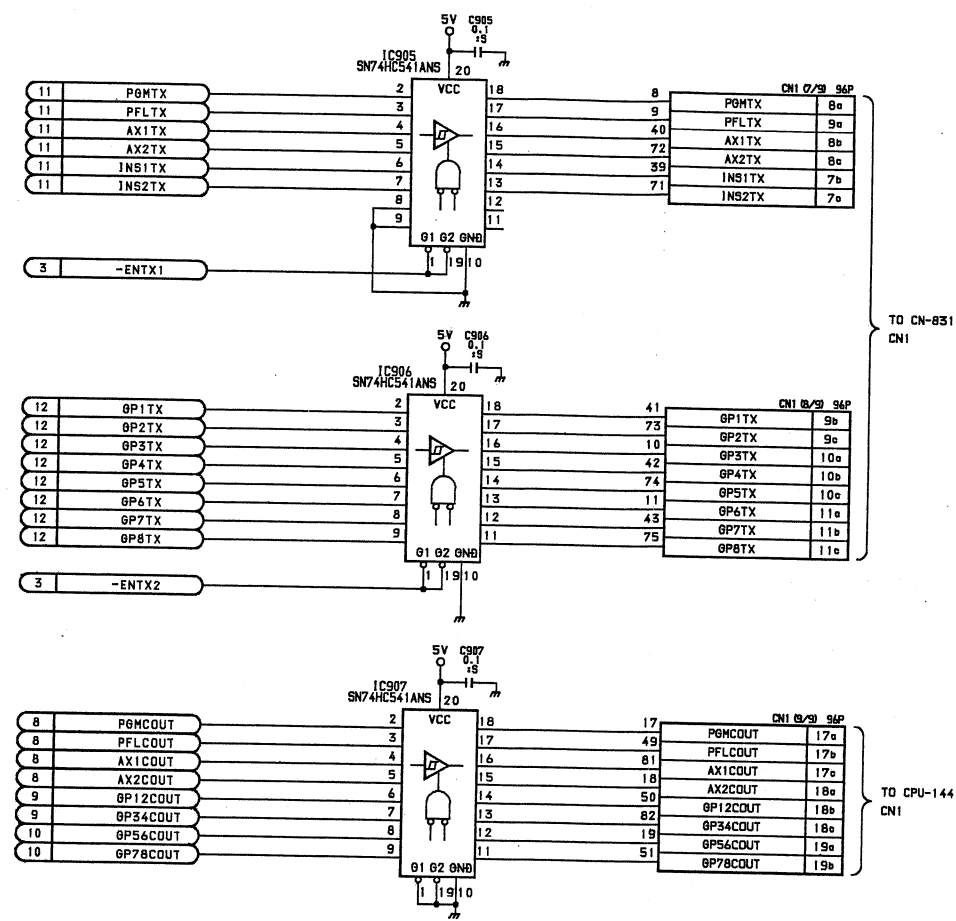
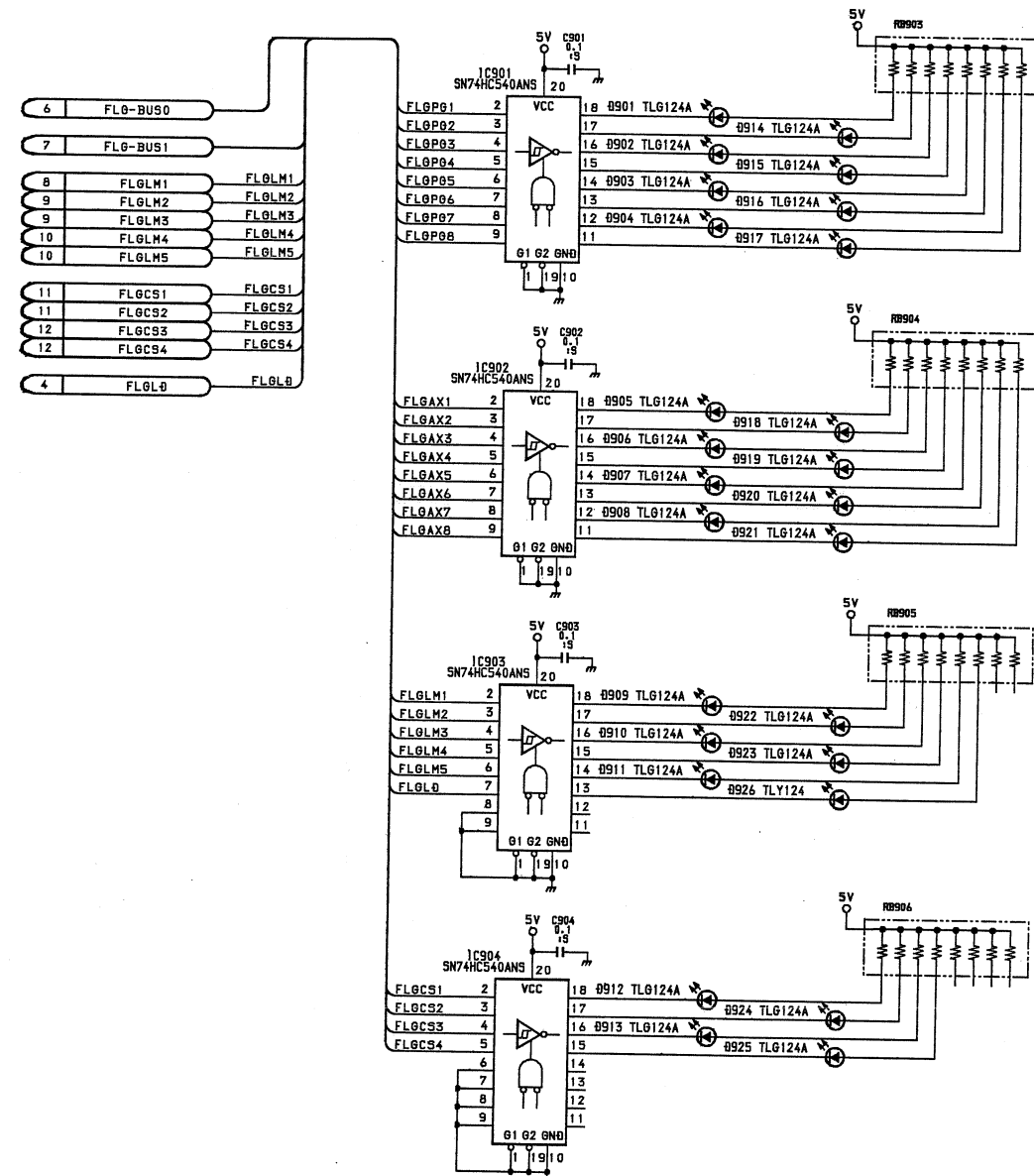
Mixing Board

MIX-16 BOARD (12/13)

BOARD NO. 1-650-115-11
DMX-B4016, DMBK-4010/4011

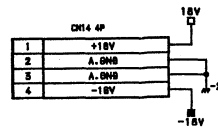
MIX-16 (13/13)
DMX-B4016 PROCESSOR, DMBK-4010/4011 (OPTION)

MIX-16 (13/13)
DMX-B4016 PROCESSOR, DMBK-4010/4011 (OPTION)



Mixing Board
MIX-16 BOARD (13/13)

BOARD NO. 1-650-115-11
DMX-B4016, DMBK-4010/4011



CPU-144

1A	+18V	18V
1B	+18V	
1C	+18V	
2A	-18V	
2B	-18V	
2C	-18V	
3A	ANB	
3B	ANB	
3C	ANB	
4A	VU MT L R	
4B	VU MT L R	
4C	VU MT L R	
5A	VU MT R R	
5B	VU MT R R	
5C	VU MT R R	
6A	ST MM L R	
6B	ST MM L R	
6C	ST MM L R	
7A	ST MM R R	
7B	ST MM R R	
7C	ST MM R R	
8A	CTL MM L R	
8B	CTL MM L R	
8C	CTL MM L R	
9A	CTL MM R R	
9B	CTL MM R R	
9C	CTL MM R R	
10A	PFL L R	
10B	PFL L R	
10C	PFL L R	
11A	PFL R R	
11B	PFL R R	
11C	PFL R R	
12A	PMH L R	
12B	PMH L R	
12C	PMH L R	
13A	PMH R R	
13B	PMH R R	
13C	PMH R R	
14A	OSC	
14B	OSC	
14C	OSC	
15A	OSC	
15B	OSC	
15C	OSC	
16A	OSC	
16B	OSC	
16C	OSC	
17A	OSC	
17B	OSC	
17C	OSC	
18A	OSC	
18B	OSC	
18C	OSC	
19A	OSC	
19B	OSC	
19C	OSC	
20A	OSC	
20B	OSC	
20C	OSC	
21A	OSC	
21B	OSC	
21C	OSC	
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22B	OSC	
22C	OSC	
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23B	OSC	
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28C	OSC	
29A	OSC	
29B	OSC	
29C	OSC	
30A	OSC	
30B	OSC	
30C	OSC	
31A	OSC	
31B	OSC	
31C	OSC	
32A	OSC	
32B	OSC	
32C	OSC	

IPM-48

1A	N.C.	
1B	N.C.	
1C	N.C.	
2A	N.C.	
2B	N.C.	
2C	N.C.	
3A	IP1	IP1
3B	IP2	IP2
3C	IP3	IP3
4A	IP4	IP4
4B	IP5	IP5
4C	IP6	IP6
5A	IP7	IP7
5B	IP8	IP8
5C	IP9	IP9
6A	IP10	IP10
6B	IP11	IP11
6C	IP12	IP12
7A	IP13	IP13
7B	IP14	IP14
7C	IP15	IP15
8A	IP16	IP16
8B	IP17	IP17
8C	IP18	IP18
9A	IP19	IP19
9B	IP20	IP20
9C	IP21	IP21
10A	IP22	IP22
10B	IP23	IP23
10C	IP24	IP24
11A	IP25	IP25
11B	IP26	IP26
11C	IP27	IP27
12A	IP28	IP28
12B	IP29	IP29
12C	IP30	IP30
13A	IP IN RTN1	IP IN RTN1
13B	IP IN RTN2	IP IN RTN2
13C	N.C.	
14A	IP IN RTN1	IP IN RTN1
14B	IP IN RTN2	IP IN RTN2
14C	N.C.	
15A	AUX1	AUX1
15B	AUX2	AUX2
15C	PFL	PFL
16A	OP1 TX	OP1 TX
16B	OP2 TX	OP2 TX
16C	OP3 TX	OP3 TX
17A	OP4 TX	OP4 TX
17B	OP5 TX	OP5 TX
17C	OP6 TX	OP6 TX
18A	OP7 TX	OP7 TX
18B	OP8 TX	OP8 TX
18C	N.C.	
19A	OP9 TX	OP9 TX
19B	OP10 TX	OP10 TX
19C	OP11 TX	OP11 TX
20A	OP12 TX	OP12 TX
20B	OP13 TX	OP13 TX
20C	OP14 TX	OP14 TX
21A	OP15 TX	OP15 TX
21B	OP16 TX	OP16 TX
21C	OP17 TX	OP17 TX
22A	OP18 TX	OP18 TX
22B	OP19 TX	OP19 TX
22C	OP20 TX	OP20 TX
23A	OP21 TX	OP21 TX
23B	OP22 TX	OP22 TX
23C	OP23 TX	OP23 TX
24A	OP24 TX	OP24 TX
24B	OP25 TX	OP25 TX
24C	OP26 TX	OP26 TX
25A	OP27 TX	OP27 TX
25B	OP28 TX	OP28 TX
25C	OP29 TX	OP29 TX
26A	OP30 TX	OP30 TX
26B	OP31 TX	OP31 TX
26C	OP32 TX	OP32 TX
27A	OP33 TX	OP33 TX
27B	OP34 TX	OP34 TX
27C	OP35 TX	OP35 TX
28A	OP36 TX	OP36 TX
28B	OP37 TX	OP37 TX
28C	OP38 TX	OP38 TX
29A	OP39 TX	OP39 TX
29B	OP40 TX	OP40 TX
29C	OP41 TX	OP41 TX
30A	OP42 TX	OP42 TX
30B	OP43 TX	OP43 TX
30C	OP44 TX	OP44 TX
31A	OP45 TX	OP45 TX
31B	OP46 TX	OP46 TX
31C	OP47 TX	OP47 TX
32A	OP48 TX	OP48 TX
32B	OP49 TX	OP49 TX
32C	OP50 TX	OP50 TX

IPM-48 (OPTION)

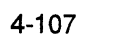
1A	N.C.	
1B	N.C.	
1C	N.C.	
2A	N.C.	
2B	N.C.	
2C	N.C.	
3A	IP1	IP1
3B	IP2	IP2
3C	IP3	IP3
4A	IP4	IP4
4B	IP5	IP5
4C	IP6	IP6
5A	IP7	IP7
5B	IP8	IP8
5C	IP9	IP9
6A	IP10	IP10
6B	IP11	IP11
6C	IP12	IP12
7A	IP13	IP13
7B	IP14	IP14
7C	IP15	IP15
8A	IP16	IP16
8B	IP17	IP17
8C	IP18	IP18
9A	IP19	IP19
9B	IP20	IP20
9C	IP21	IP21
10A	IP22	IP22
10B	IP23	IP23
10C	IP24	IP24
11A	IP25	IP25
11B	IP26	IP26
11C	IP27	IP27
12A	IP28	IP28
12B	IP29	IP29
12C	IP30	IP30
13A	IP IN RTN1	IP IN RTN1
13B	IP IN RTN2	IP IN RTN2
13C	N.C.	
14A	IP IN RTN1	IP IN RTN1
14B	IP IN RTN2	IP IN RTN2
14C	N.C.	
15A	AUX1	AUX1
15B	AUX2	AUX2
15C	PFL	PFL
16A	OP1 TX	OP1 TX
16B	OP2 TX	OP2 TX
16C	OP3 TX	OP3 TX
17A	OP4 TX	OP4 TX
17B	OP5 TX	OP5 TX
17C	OP6 TX	OP6 TX
18A	OP7 TX	OP7 TX
18B	OP8 TX	OP8 TX
18C	N.C.	
19A	OP9 TX	OP9 TX
19B	OP10 TX	OP10 TX
19C	OP11 TX	OP11 TX
20A	OP12 TX	OP12 TX
20B	OP13 TX	OP13 TX
20C	OP14 TX	OP14 TX
21A	OP15 TX	OP15 TX
21B	OP16 TX	OP16 TX
21C	OP17 TX	OP17 TX
22A	OP18 TX	OP18 TX
22B	OP19 TX	OP19 TX
22C	OP20 TX	OP20 TX
23A	OP21 TX	OP21 TX
23B	OP22 TX	OP22 TX
23C	OP23 TX	OP23 TX
24A	OP24 TX	OP24 TX
24B	OP25 TX	OP25 TX
24C	OP26 TX	OP26 TX
25A	OP27 TX	OP27 TX
25B	OP28 TX	OP28 TX
25C	OP29 TX	OP29 TX
26A	OP30 TX	OP30 TX
26B	OP31 TX	OP31 TX
26C	OP32 TX	OP32 TX
27A	OP33 TX	OP33 TX
27B	OP34 TX	OP34 TX
27C	OP35 TX	OP35 TX
28A	OP36 TX	OP36 TX
28B	OP37 TX	OP37 TX
28C	OP38 TX	OP38 TX
29A	OP39 TX	OP39 TX
29B	OP40 TX	OP40 TX
29C	OP41 TX	OP41 TX
30A	OP42 TX	OP42 TX
30B	OP43 TX	OP43 TX
30C	OP44 TX	OP44 TX
31A	OP45 TX	OP45 TX
31B	OP46 TX	OP46 TX
31C	OP47 TX	OP47 TX
32A	OP48 TX	OP48 TX
32B	OP49 TX	OP49 TX
32C	OP50 TX	OP50 TX

MIX-16

1A	N.C.	
1B	N.C.	
1C	N.C.	
2A	N.C.	
2B	N.C.	
2C	N.C.	
3A	N.C.	
3B	N.C.	
3C	N.C.	
4A	N.C.	
4B	N.C.	
4C	N.C.	
5A	N.C.	
5B	N.C.	
5C	N.C.	
6A	N.C.	
6B	N.C.	
6C	N.C.	
7A	N.C.	
7B	N.C.	
7C	N.C.	
8A	N.C.	
8B	N.C.	
8C	N.C.	
9A	N.C.	
9B	N.C.	
9C	N.C.	
10A	N.C.	
10B	N.C.	
10C	N.C.	
11A	N.C.	
11B	N.C.	
11C	N.C.	
12A	N.C.	
12B	N.C.	
12C	N.C.	
13A	N.C.	
13B	N.C.	
13C	N.C.	
14A	N.C.	
14B	N.C.	
14C	N.C.	
15A	N.C.	
15B	N.C.	
15C	N.C.	
16A	N.C.	
16B	N.C.	
16C	N.C.	
17A	N.C.	
17B	N.C.	
17C	N.C.	
18A	N.C.	
18B	N.C.	
18C	N.C.	
19A	N.C.	
19B	N.C.	
19C	N.C.	
20A	N.C.	
20B	N.C.	
20C	N.C.	
21A	N.C.	
21B	N.C.	
21C	N.C.	
22A	N.C.	
22B	N.C.	
22C	N.C.	
23A	N.C.	
23B	N.C.	
23C	N.C.	
24A	N.C.	
24B	N.C.	
24C	N.C.	
25A	N.C.	
25B	N.C.	
25C	N.C.	
26A	N.C.	
26B	N.C.	
26C	N.C.	
27A	N.C.	
27B	N.C.	
27C	N.C.	
28A	N.C.	
28B	N.C.	
28C	N.C.	
29A	N.C.	
29B	N.C.	
29C	N.C.	
30A	N.C.	
30B	N.C.	
30C	N.C.	
31A	N.C.	
31B	N.C.	
31C	N.C.	
32A	N.C.	
32B	N.C.	
32C	N.C.	

MIX-16 (OPTION)

1A	N.C.	
1B	N.C.	
1C	N.C.	
2A	N.C.	
2B	N.C.	
2C	N.C.	
3A	N.C.	
3B	N.C.	
3C	N.C.	
4A	N.C.	
4B	N.C.	
4C	N.C.	
5A	N.C.	
5B	N.C.	
5C	N.C.	
6A	N.C.	
6B	N.C.	
6C	N.C.	
7A	N.C.	
7B	N.C.	
7C	N.C.	
8A	PWM	PWM
8B	AUX1	AUX1
8C	AUX2	AUX2
9A	PFL	PFL
9B	N.C.	
9C	N.C.	
10A	N.C.	
10B	N.C.	
10C	RPST	RPST
11A	RPST	RPST
11B	RPST	RPST
11C	RPST	RPST
12A	PWM SUB	PWM SUB
12B	N.C.	
12C	AUX1 SUB	AUX1 SUB
13A	AUX2 SUB	AUX2 SUB
13B	N.C.	
13C	N.C.	
14A	N.C.	
14B	N.C.	
14C	N.C.	
15A	N.C.	
15B	N.C.	
15C	N.C.	
16A	OSC	OSC
16B	ON AIR	ON AIR
16C	15/17	15/17
17A	PWM CAS	PWM CAS
17B	PFL CAS	PFL CAS
17C	AUX1 CAS	AUX1 CAS
18A	AUX2 CAS	AUX2 CAS
18B	RPST CAS	RPST CAS
18C	RPST CAS	RPST CAS
19A	RPST CAS	RPST CAS
19B	RPST CAS	RPST CAS
19C	RPST MT	RPST MT
20A	RPST MT	RPST MT
20B	RPST MT	RPST MT
20C	RPST MT	RPST MT
21A	N.C.	
21B	N.C.	
21C	N.C.	
22A	N.C.	
22B	NIX1	NIX1
22C	NIX2	NIX2
23A	NIX3	NIX3
23B	NIX4	NIX4
23C	NIX5	NIX5
24A	NIX6	NIX6
24B	NIX7	NIX7
24C	NIX8	NIX8
25A	NIX9	NIX9
25B	NIX10	NIX10
25C	NIX11	NIX11
26A	NIX12	NIX12
26B	NIX13	NIX13
26C	NIX14	NIX14
27A	NIX15	NIX15
27B	NIX16	NIX16
27C	NIX17	NIX17
28A	NIX18	NIX18
28B	NIX19	NIX19
28C	NIX20	NIX20
29A	NIX21	NIX21
29B	NIX22	NIX22
29C	NIX23	NIX23
30A	NIX24	NIX24
30B	NIX25	NIX25
30C	NIX26	NIX26
31A	NIX27	NIX27
31B	NIX28	NIX28
31C	NIX29	NIX29
32A	NIX30	NIX30
32B	NIX 1MS RTN1	NIX 1MS RTN1
32C	NIX 1MS RTN2	NIX 1MS RTN2



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1A	GNB	1	
1B	GNB	2	
1C	GNB	3	
2A	GNB	4	
2B	GNB	5	
2C	GNB	6	
3A	+5V	7	
3B	+5V	8	
3C	+5V	9	
4A	+5V	10	
4B	+5V	11	
4C	+5V	12	
5A	GNB	13	
5B	EXT V8 OUT2	14	EXT V8 OUT2
5C	GNB	15	
6A	EXT V8 OUT1	16	EXT V8 OUT1
6B	GNB	17	
6C	WREF	18	WREF
7A	GNB	19	
7B	N.C.	20	
7C	GNB	21	
8A	GNB	22	
8B	GNB	23	
8C	GNB	24	
9A	GNB	25	
9B	WREF	26	WREF
9C	GNB	27	
10A	GNB	28	
10B	GNB	29	
10C	GNB	30	
11A	GNB	31	
11B	BI SYNC	32	BI SYNC
11C	GNB	33	
12A	-SPIN OUT1	34	-SP OUT1
12B	GNB	35	
12C	+SPIN IN1	36	+SP IN1
13A	GNB	37	
13B	+SPIN OUT1	38	+SP OUT1
13C	GNB	39	
14A	-SPIN IN1	40	-SP IN1
14B	GNB	41	
14C	-SPIN IN2	42	-SP IN2
15A	GNB	43	
15B	+SPIN OUT2	44	+SP OUT2
15C	GNB	45	
16A	+SPIN IN2	46	+SP IN2
16B	GNB	47	
16C	-SPIN OUT2	48	-SP OUT2
17A	GNB	49	
17B	N.C.	50	
17C	GNB	51	
18A	GNB	52	
18B	GNB	53	
18C	+TX	54	+TX
19A	GNB	55	
19B	-TX	56	-TX
19C	GNB	57	
20A	+RX	58	+RX
20B	GNB	59	
20C	-RX	60	-RX
21A	GNB	61	
21B	+TCK	62	+TCK
21C	GNB	63	
22A	-TCK	64	-TCK
22B	GNB	65	
22C	+RCK	66	+RCK
23A	GNB	67	
23B	-RCK	68	-RCK
23C	GNB	69	
24A	-RESTART	70	-RESTART
24B	GNB	71	
24C	VSYNC	72	VSYNC
25A	GNB	73	
25B	TX	74	TX
25C	GNB	75	
26A	RX	76	RX
26B	GNB	77	
26C	RTS	78	RTS
27A	GNB	79	
27B	CTS	80	CTS
27C	GNB	81	
28A	DSR	82	DSR
28B	GNB	83	
28C	RTS	84	RTS
29A	N.C.	85	
29B	N.C.	86	
29C	N.C.	87	
30A	N.C.	88	
30B	N.C.	89	
30C	N.C.	90	
31A	N.C.	91	
31B	N.C.	92	
31C	N.C.	93	
32A	N.C.	94	
32B	N.C.	95	
32C	N.C.	96	

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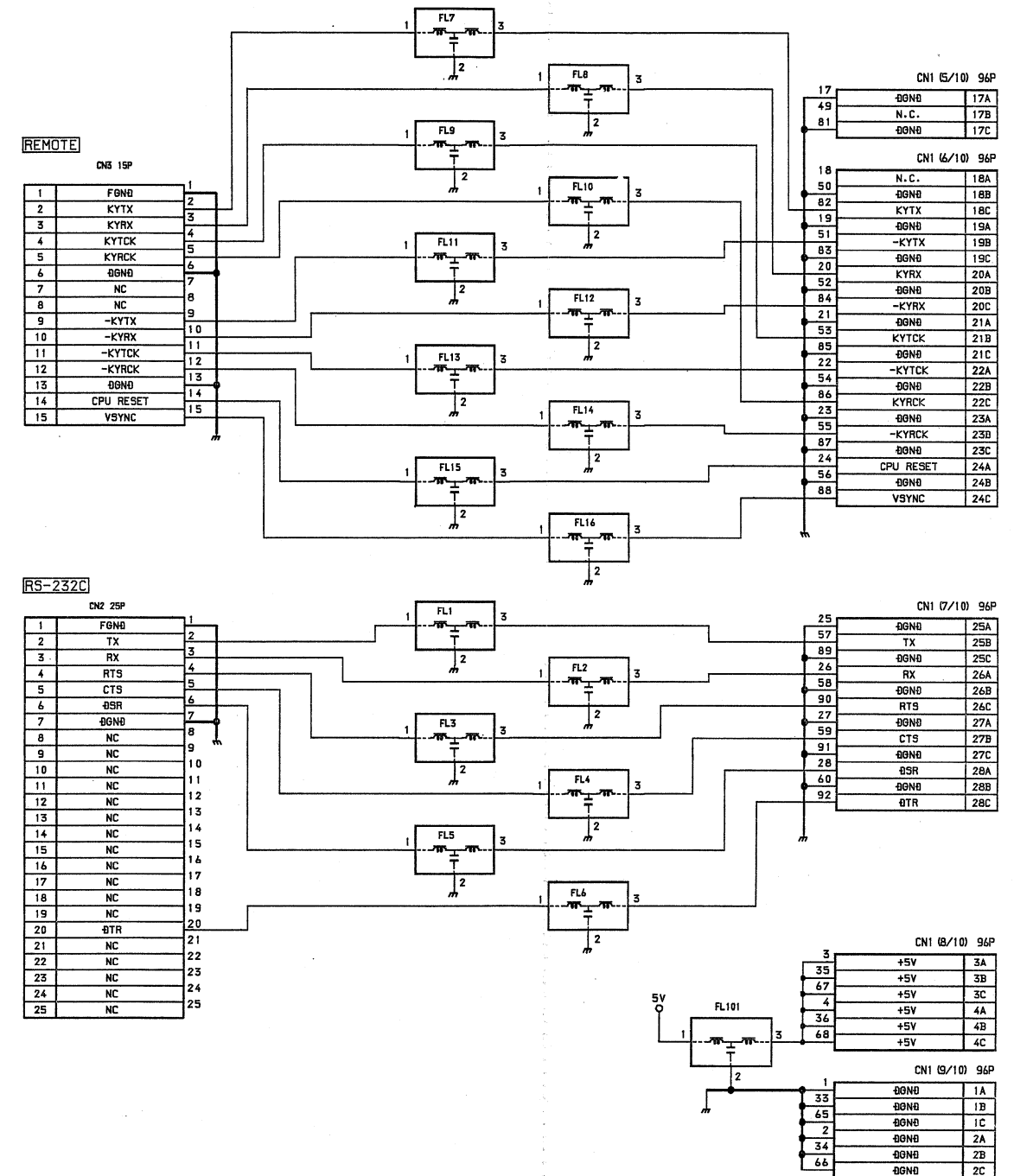
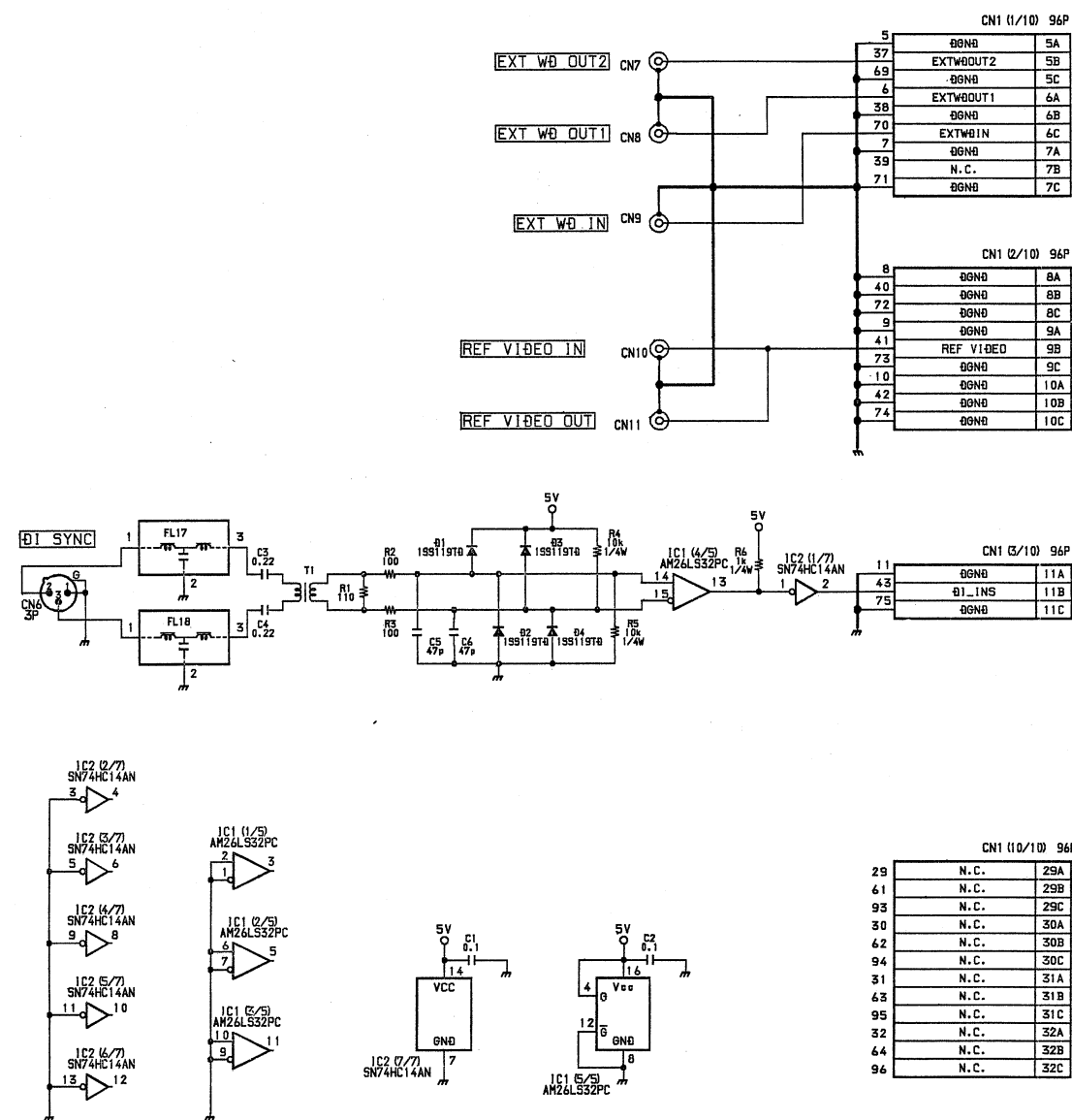
1A	GNB	1	
1B	GNB	2	
1C	GNB	3	
2A	GNB	4	
2B	GNB	5	
2C	GNB	6	
3A	+5V	7	
3B	+5V	8	
3C	+5V	9	
4A	+5V	10	
4B	+5V	11	
4C	+5V	12	
5A	GNB	13	
5B	N.C.	14	
5C	GNB	15	
6A	N.C.	16	
6B	GNB	17	
6C	N.C.	18	
7A	GNB	19	
7B	N.C.	20	
7C	GNB	21	
8A	N.C.	22	
8B	GNB	23	
8C	N.C.	24	
9A	GNB	25	
9B	N.C.	26	
9C	GNB	27	
10A	N.C.	28	
10B	GNB	29	
10C	N.C.	30	
11A	GNB	31	
11B	N.C.	32	
11C	GNB	33	
12A	N.C.	34	
12B	GNB	35	
12C	N.C.	36	
13A	GNB	37	
13B	N.C.	38	
13C	GNB	39	
14A	N.C.	40	
14B	GNB	41	
14C	N.C.	42	
15A	GNB	43	
15B	N.C.	44	
15C	GNB	45	
16A	N.C.	46	
16B	GNB	47	
16C	N.C.	48	
17A	GNB	49	
17B	N.C.	50	
17C	GNB	51	
18A	N.C.	52	
18B	GNB	53	
18C	IP16	54	IP16
19A	GNB	55	
19B	IP15	56	IP15
19C	GNB	57	
20A	IP14	58	IP14
20B	GNB	59	
20C	IP13	60	IP13
21A	GNB	61	
21B	IP12	62	IP12
21C	GNB	63	
22A	IP11	64	IP11
22B	GNB	65	
22C	IP10	66	IP10
23A	GNB	67	
23B	IP9	68	IP9
23C	GNB	69	
24A	IP8	70	IP8
24B	GNB	71	
24C	IP7	72	IP7
25A	GNB	73	
25B	IP6	74	IP6
25C	GNB	75	
26A	IP5	76	IP5
26B	GNB	77	
26C	IP4	78	IP4
27A	GNB	79	
27B	IP3	80	IP3
27C	GNB	81	
28A	IP2	82	IP2
28B	GNB	83	
28C	IP1	84	IP1
29A	N.C.	85	
29B	N.C.	86	
29C	N.C.	87	
30A	N.C.	88	
30B	N.C.	89	
30C	N.C.	90	
31A	N.C.	91	
31B	N.C.	92	
31C	N.C.	93	
32A	N.C.	94	
32B	N.C.	95	
32C	N.C.	96	

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1A	GNB	1	
1B	GNB	2	
1C	GNB	3	
2A	GNB	4	
2B	GNB	5	
2C	GNB	6	
3A	+5V	7	
3B	+5V	8	
3C	+5V	9	
4A	+5V	10	
4B	+5V	11	
4C	+5V	12	
5A	GNB	13	
5B	N.C.	14	
5C	GNB	15	
6A	N.C.	16	
6B	GNB	17	
6C	N.C.	18	
7A	GNB	19	
7B	N.C.	20	
7C	GNB	21	
8A	N.C.	22	
8B	GNB	23	
8C	N.C.	24	
9A	GNB	25	
9B	N.C.	26	
9C	GNB	27	
10A	N.C.	28	
10B	GNB	29	
10C	N.C.	30	
11A	GNB	31	
11B	N.C.	32	
11C	GNB	33	
12A	N.C.	34	
12B	GNB	35	
12C	N.C.	36	
13A	GNB	37	
13B	N.C.	38	
13C	GNB	39	
14A	N.C.	40	
14B	GNB	41	
14C	N.C.	42	
15A	GNB	43	
15B	N.C.	44	
15C	GNB	45	
16A	N.C.	46	
16B	GNB	47	
16C	N.C.	48	
17A	GNB	49	
17B	N.C.	50	
17C	GNB	51	
18A	N.C.	52	
18B	GNB	53	
18C	IP16	54	IP16
19A	GNB	55	
19B	IP15	56	IP15
19C	GNB	57	
20A	IP14	58	IP14
20B	GNB	59	
20C	IP13	60	IP13
21A	GNB	61	
21B	IP12	62	IP12
21C	GNB	63	
22A	IP11	64	IP11
22B	GNB	65	
22C	IP10	66	IP10
23A	GNB	67	
23B	IP9	68	IP9
23C	GNB	69	
24A	IP8	70	IP8
24B	GNB	71	
24C	IP7	72	IP7
25A	GNB	73	
25B	IP6	74	IP6
25C	GNB	75	
26A	IP5	76	IP5
26B	GNB	77	
26C	IP4	78	IP4
27A	GNB	79	
27B	IP3	80	IP3
27C	GNB	81	
28A	IP2	82	IP2
28B	GNB	83	
28C	IP1	84	IP1
29A	N.C.	85	
29B	N.C.	86	
29C	N.C.	87	
30A	N.C.	88	
30B	N.C.	89	
30C	N.C.	90	
31A	N.C.	91	
31B	N.C.	92	
31C	N.C.	93	
32A	N.C.	94	
32B	N.C.	95	
32C	N.C.	96	

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1A	GNB	1	
1B	GNB	2	
1C	GNB	3	
2A	GNB	4	
2B	GNB	5	
2C	GNB	6	
3A	+5V	7	
3B	+5V	8	
3C	+5V	9	
4A	+5V	10	
4B	+5V	11	
4C	+5V	12	
5A	GNB	13	
5B	N.C.	14	
5C	GNB	15	
6A	N.C.	16	
6B	GNB	17	
6C	N.C.	18	
7A	GNB	19	
7B	N.C.	20	
7C	GNB	21	
8A	N.C.	22	
8B	GNB	23	
8C	N.C.	24	
9A	GNB	25	
9B	N.C.	26	
9C	GNB	27	
10A	N.C.	28	
10B	GNB	29	
10C	N.C.	30	
11A	GNB	31	
11B	N.C.	32	
11C	GNB	33	
12A	N.C.	34	
12B	GNB	35	
12C	N.C.	36	
13A	GNB	37	
13B	N.C.	38	
13C	GNB	39	
14A	N.C.	40	
14B	GNB	41	
14C	N.C.	42	
15A	GNB	43	
15B	-PORT3	44	-PORT3
15C	N.C.	45	
16A	N.C.	46	
16B	GNB	47	
16C	N.C.	48	
17A	GNB	49	
17B	N.C.	50	
17C	GNB	51	
18A	N.C.	52	
18B	GNB	53	
18C	PFL	54	PFL
19A	GNB	55	
19B	AUX2	56	AUX2
19C	GNB	57	
20A	AUX1	58	AUX1
20B	GNB	59	
20C	PWM	60	PWM
21A	GNB	61	
21B	INS SH82	62	INS SH82
21C	GNB	63	
22A	INS SH81	64	INS SH81
22B	GNB	65	
22C	N.C.	66	
23A	GNB	67	
23B	IP INS RTN2	68	IP INS RTN2
23C	GNB	69	
24A	IP INS RTN1	70	IP INS RTN1
24B	GNB	71	
24C	AUX2 SUB	72	AUX2 SUB
25A	GNB	73	
25B	AUX1 SUB	74	AUX1 SUB
25C	GNB	75	
26A	EX MON14 RX	76	EX MON14 RX
26B	GNB	77	
26C	EX MON13 RX	78	EX MON13 RX
27A	GNB	79	
27B	EX MON12 RX	80	EX MON12 RX
27C	GNB	81	
28A	EX MON11 RX	82	EX MON11 RX
28B	GNB	83	
28C	ON AIR RX	84	ON AIR RX
29A	N.C.	85	
29B	N.C.	86	
29C	N.C.	87	
30A	N.C.	88	
30B	N.C.	89	
30C	N.C.	90	
31A	N.C.	91	
31B	N.C.	92	
31C	N.C.	93	
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32B	N.C.	95	
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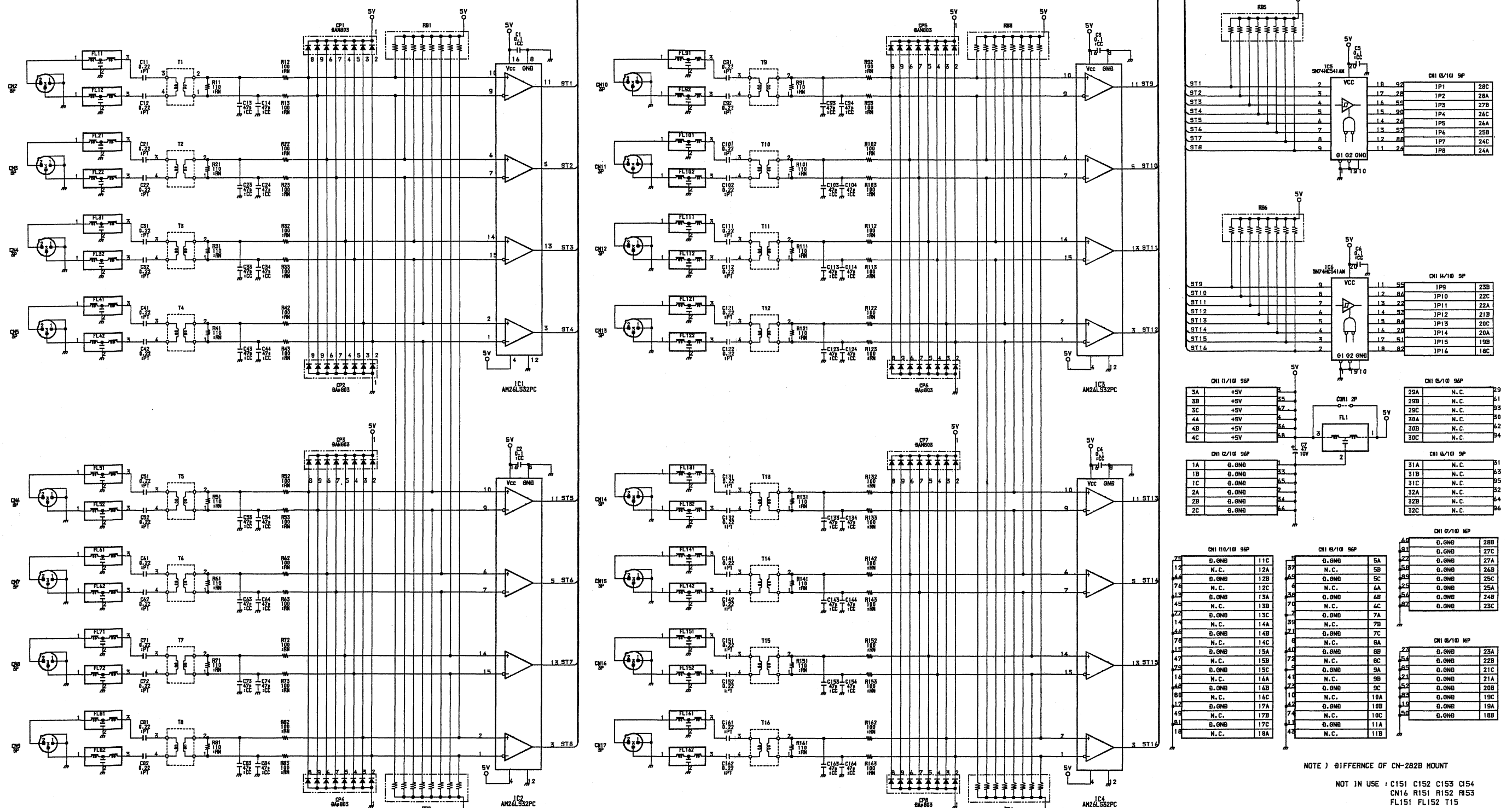


Connector Board
CN-827 BOARD

BOARD NO. 1-650-116-11
DMX-B4016

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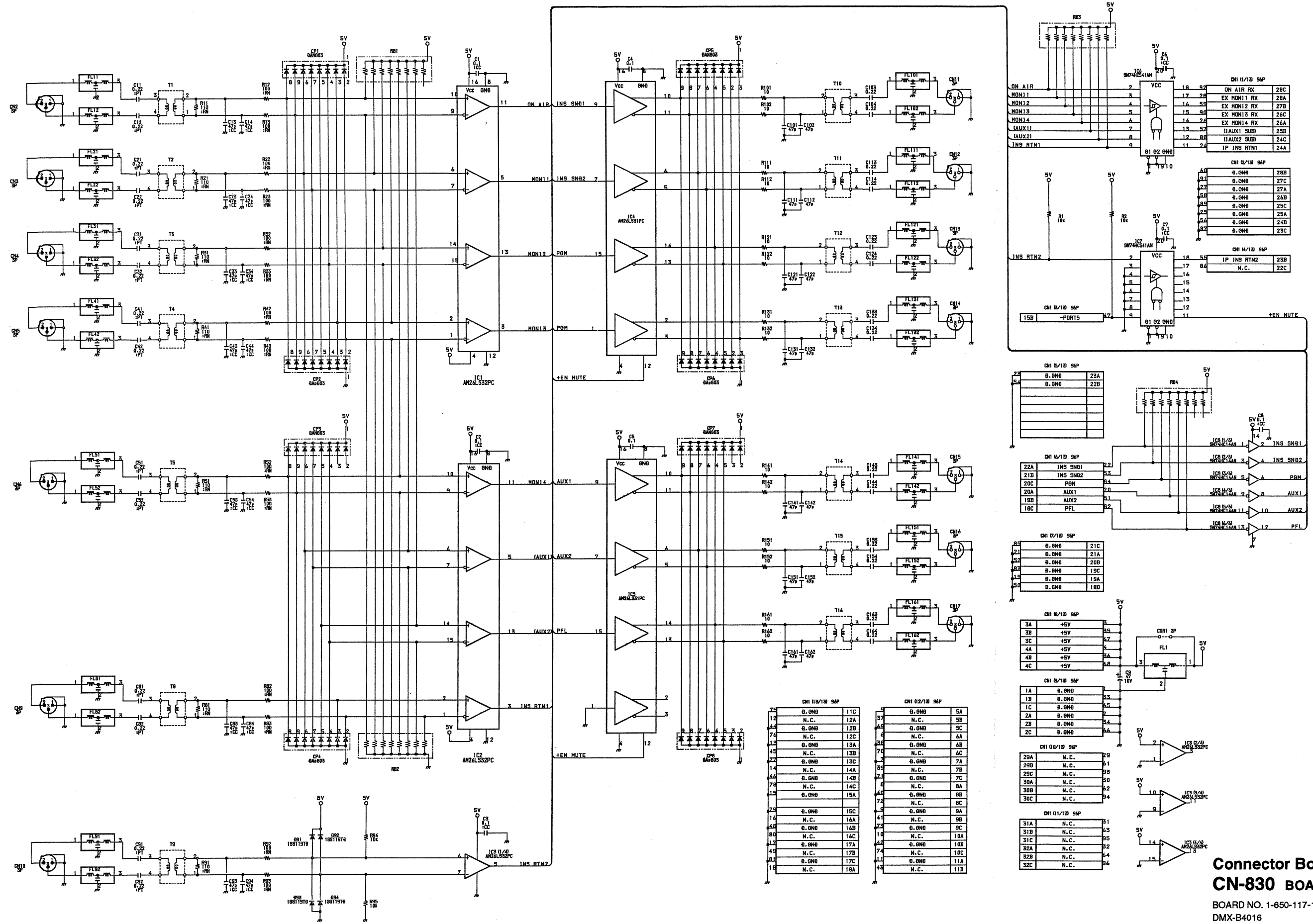
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Connector Board
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CN-828B BOARD
BOARD NO. 1-650-118-11
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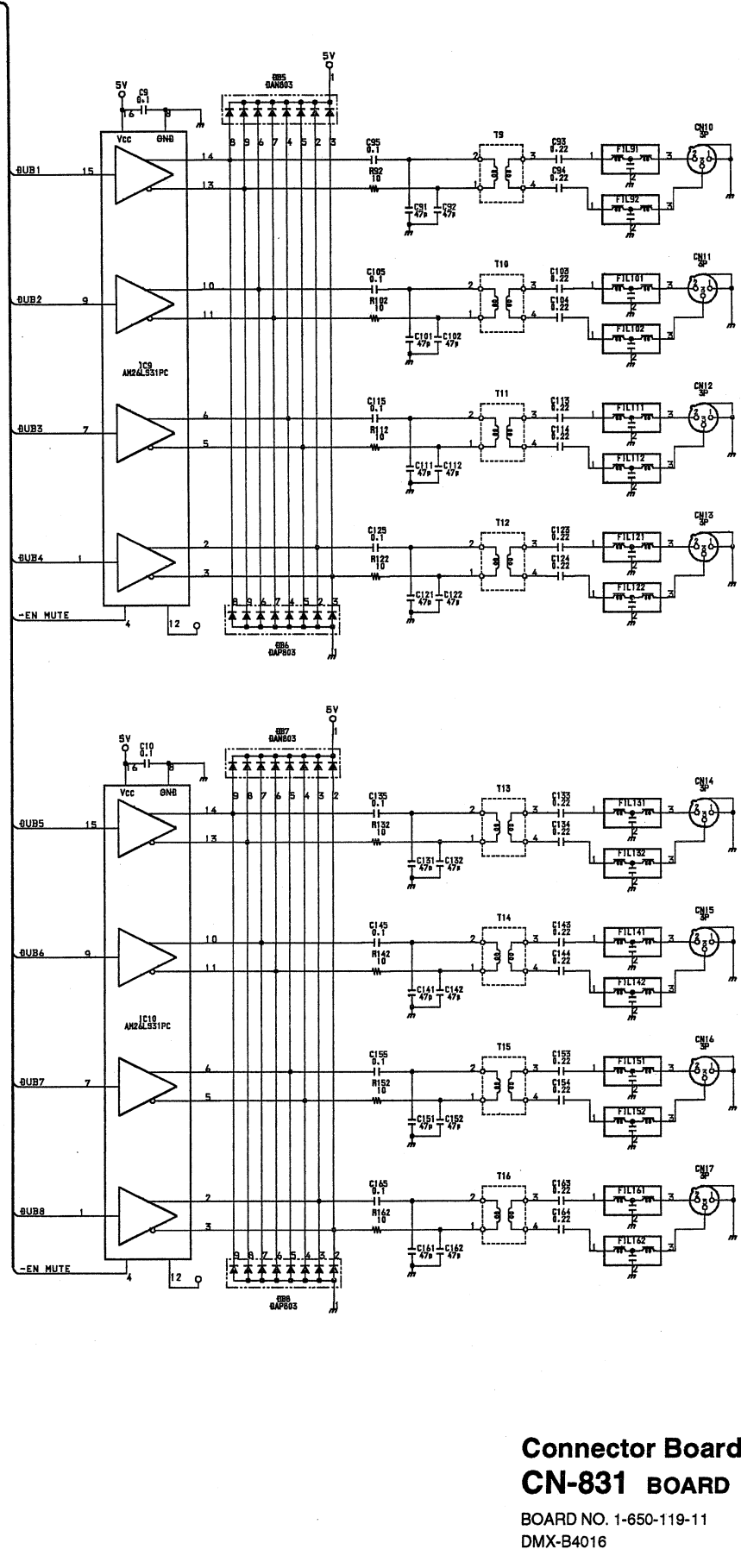
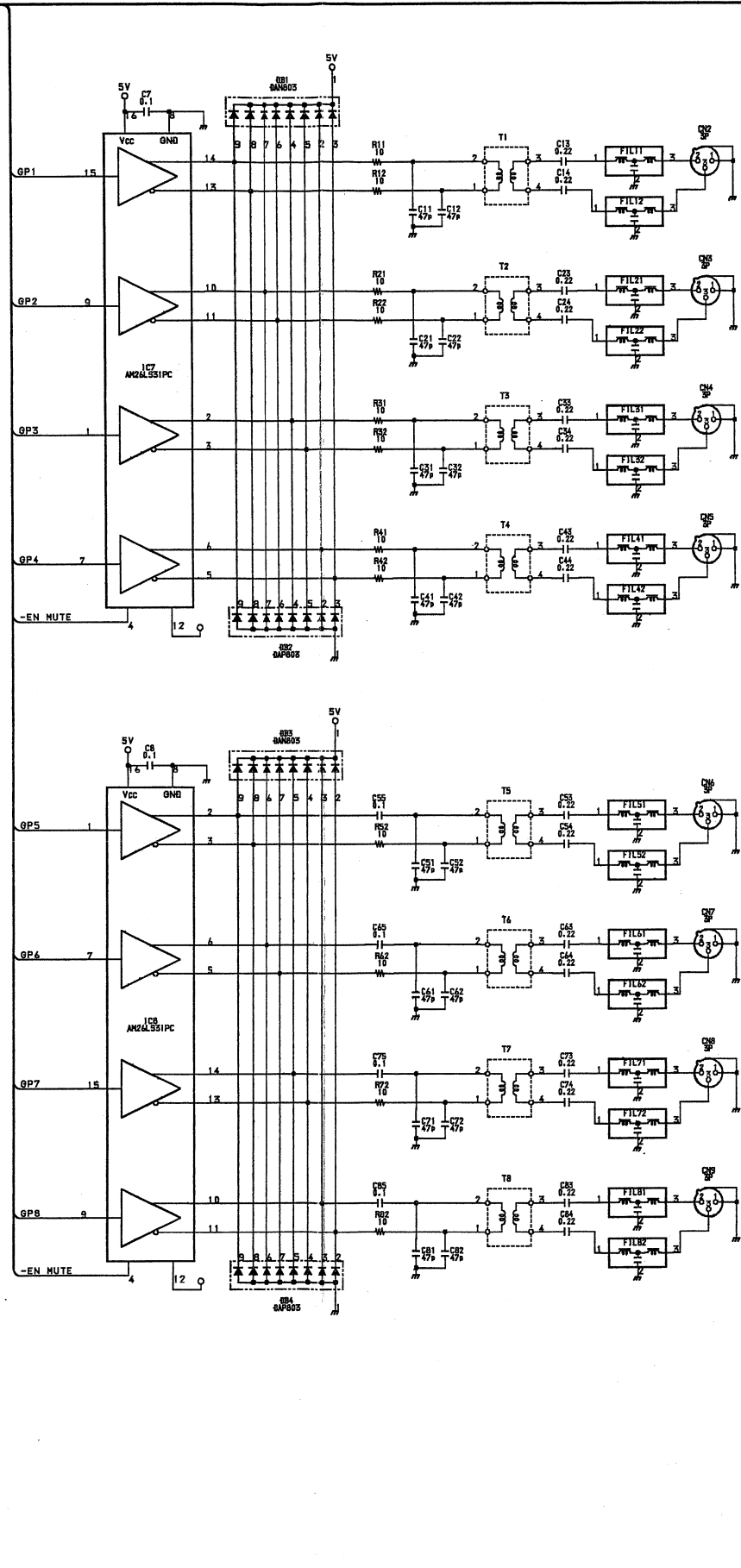
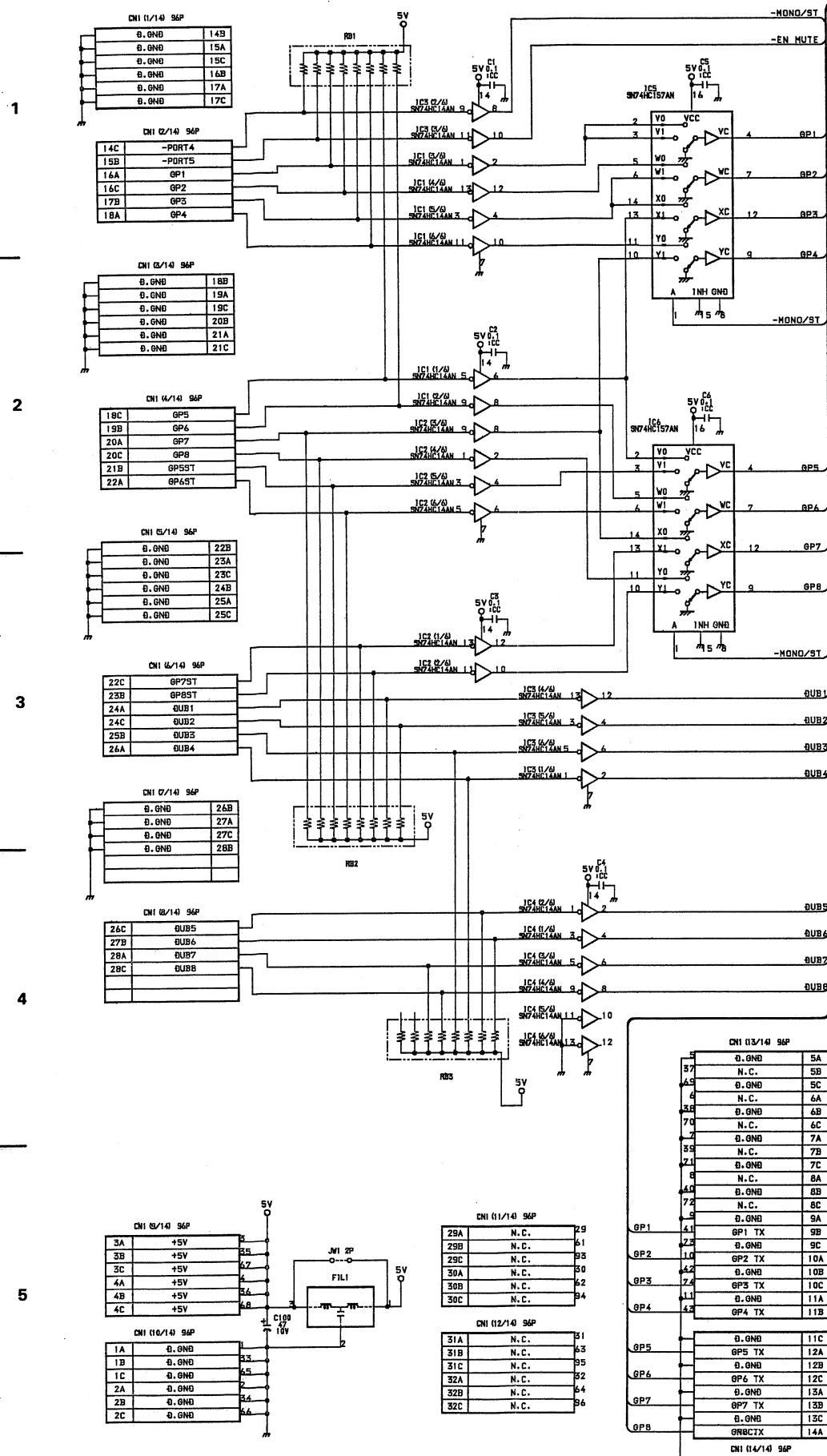
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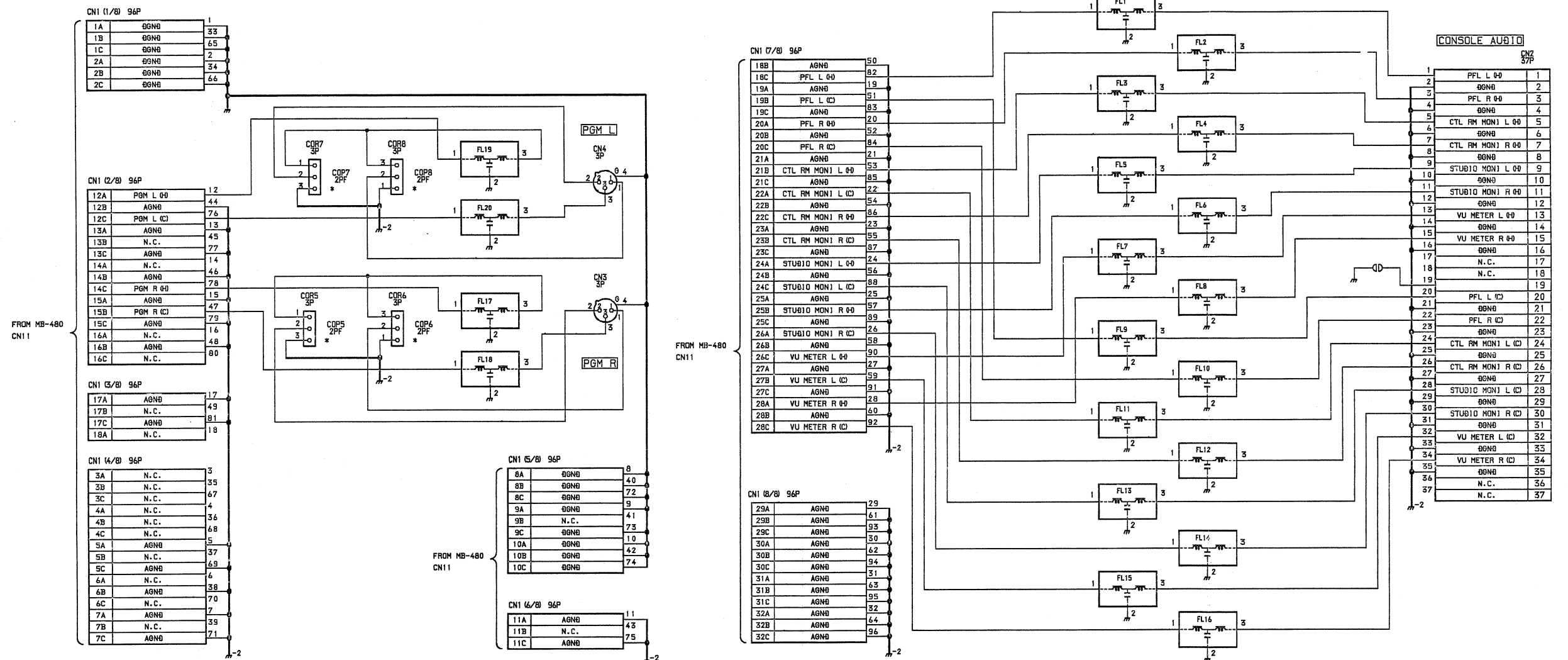


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Connector Board
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BOARD NO. 1-650-119-11
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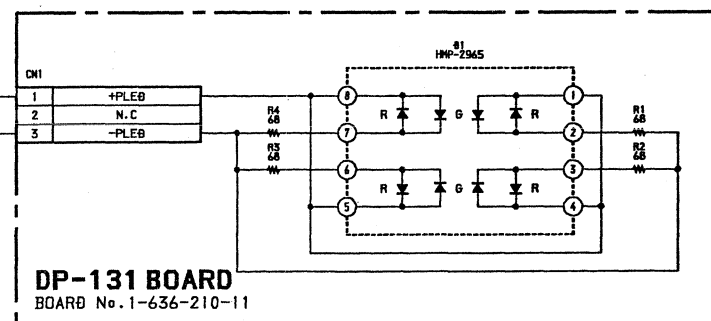
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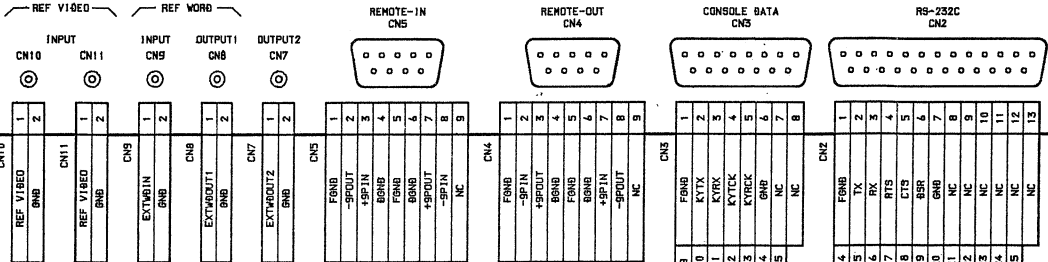
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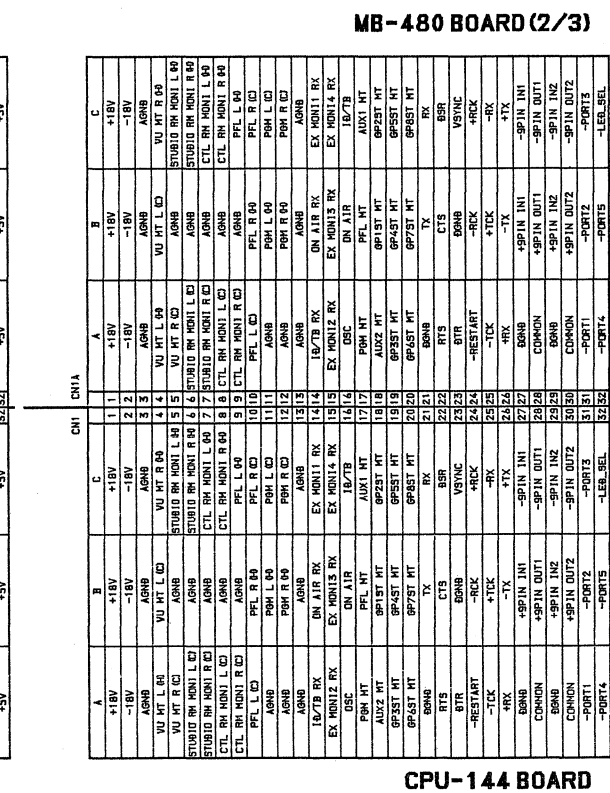
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FRAME WIRING (2/3)
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CN-827 BOARD

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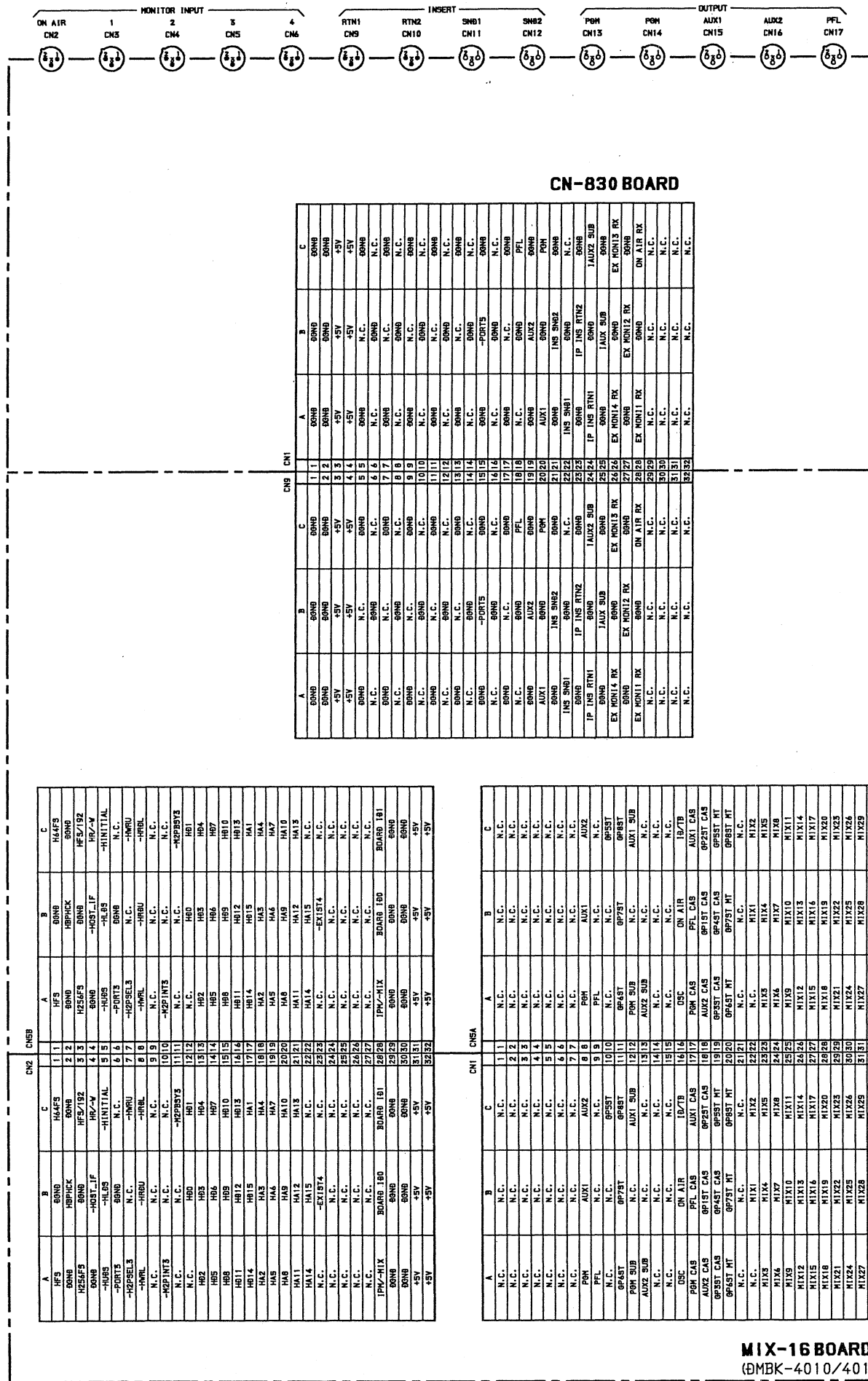


MB-480 BOARD (2/3)

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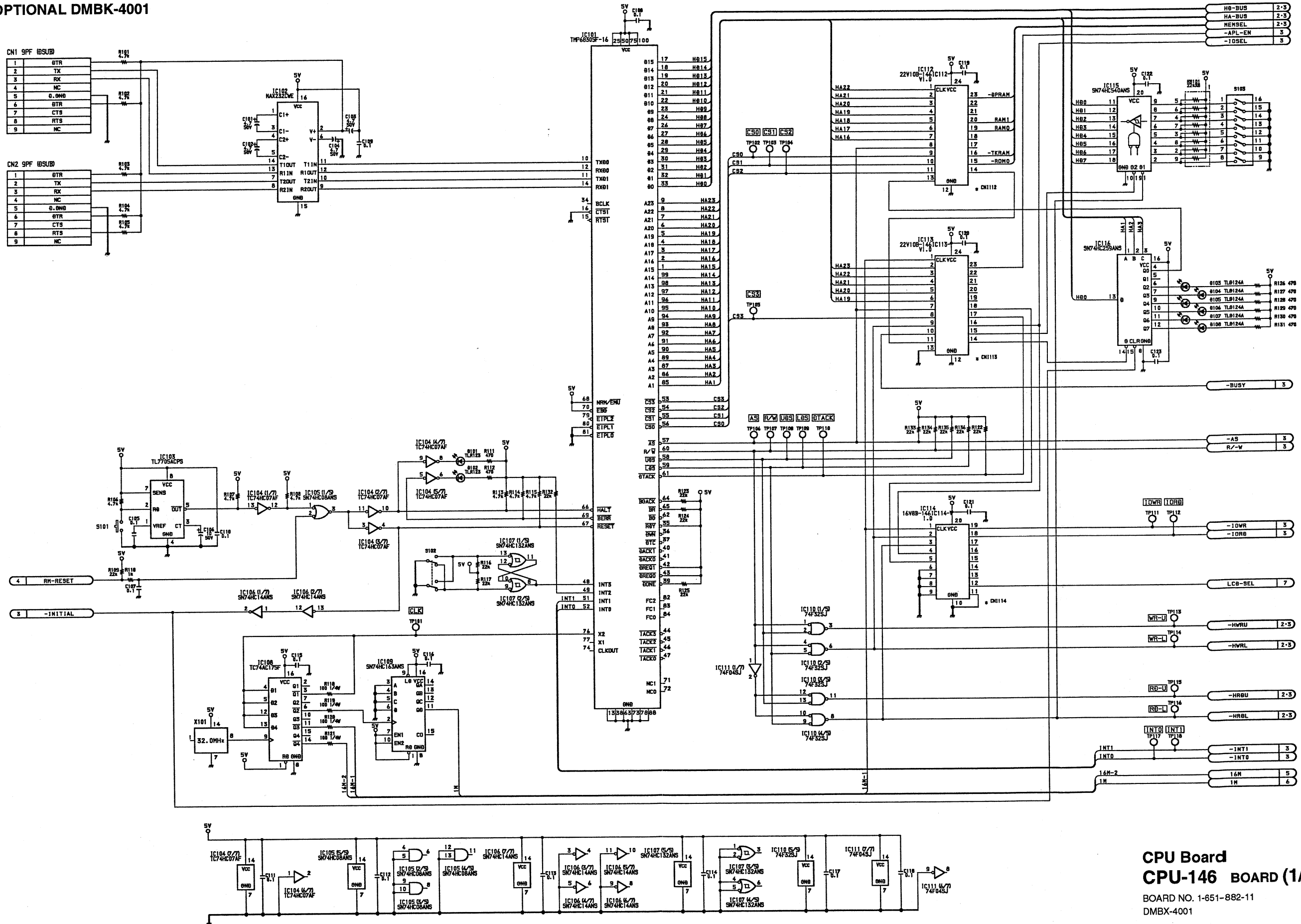
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4-4. OPTIONAL DMBK-4001

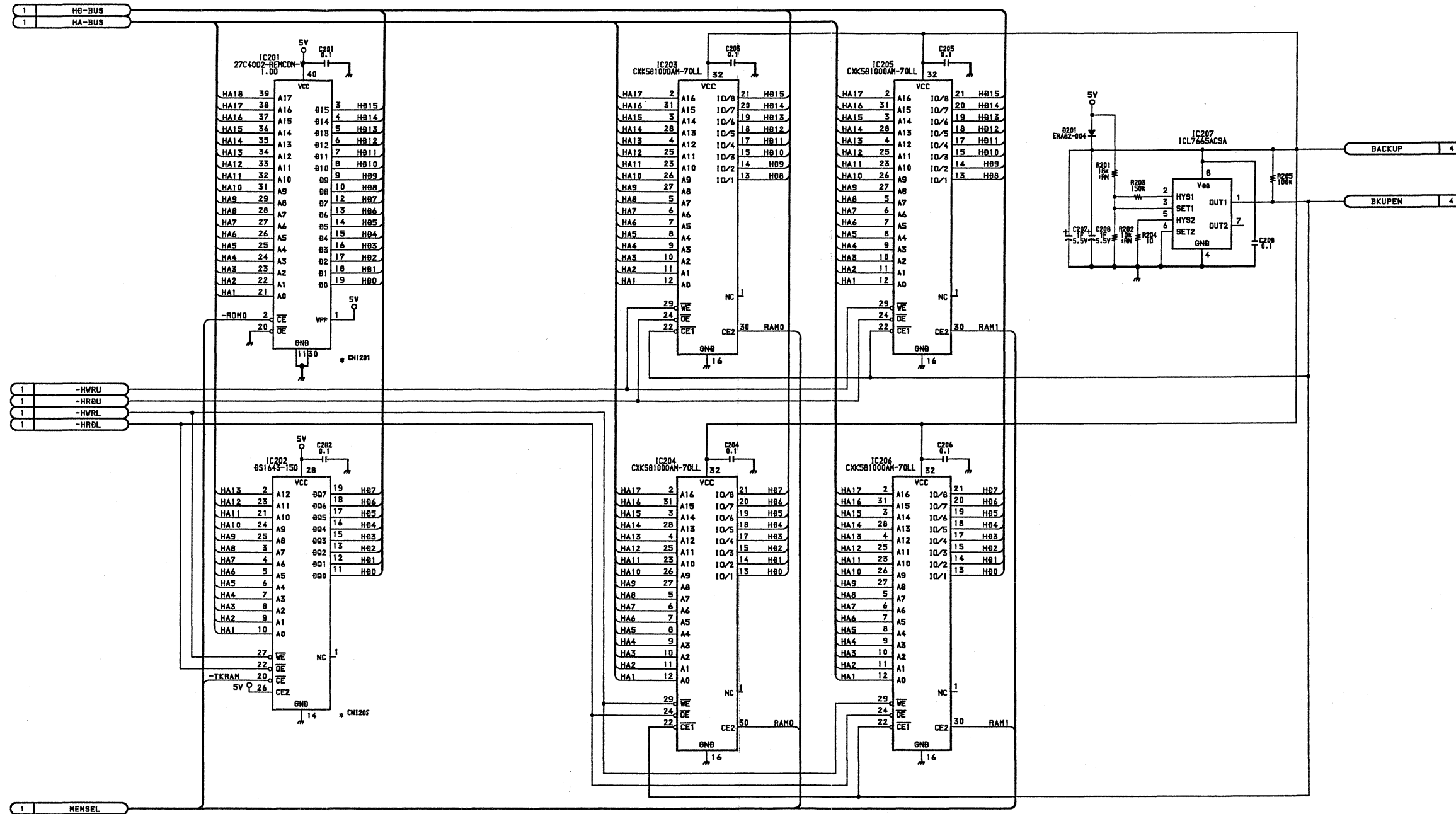


CPU Board

CPU-146 BOARD (1/7)

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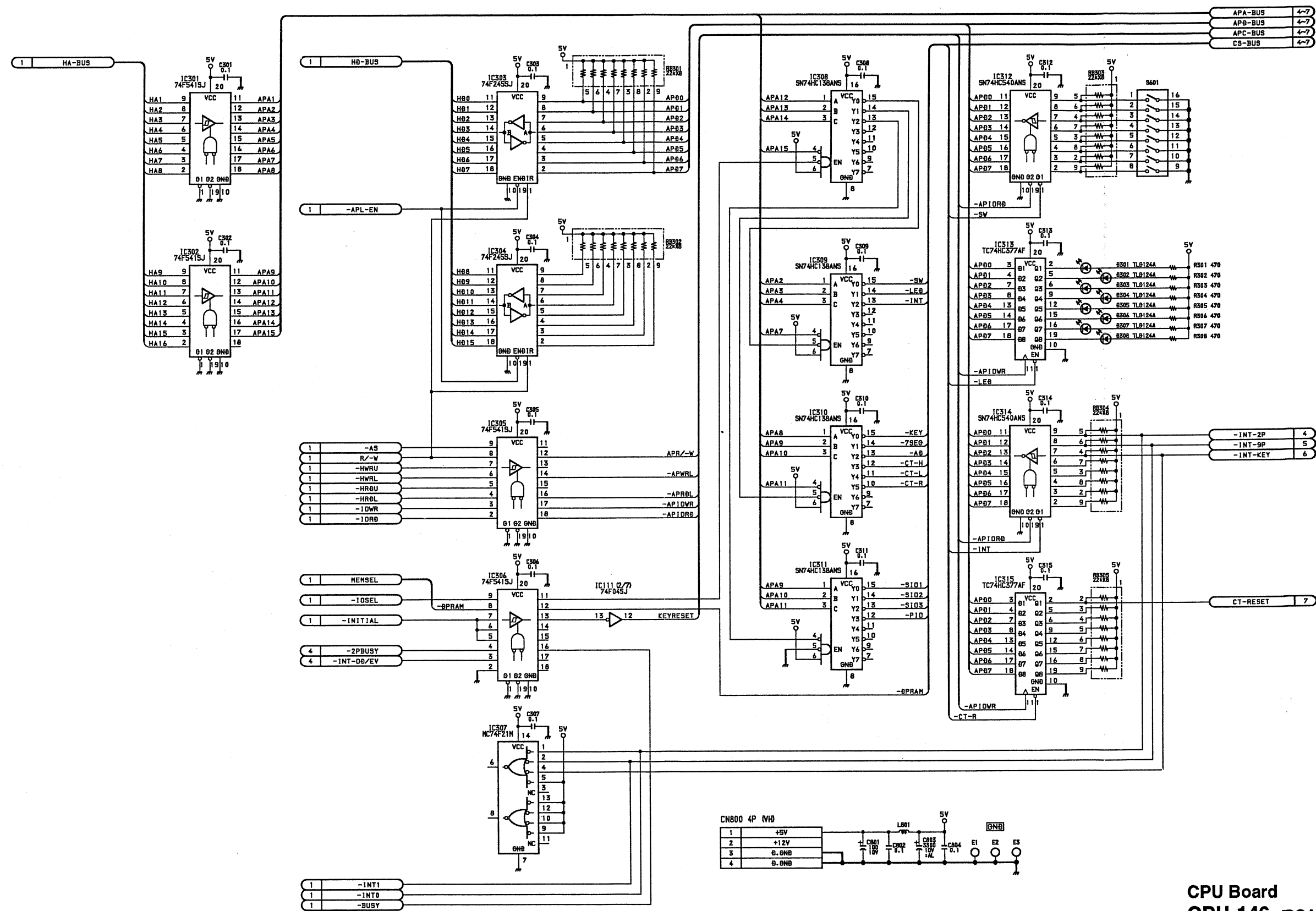


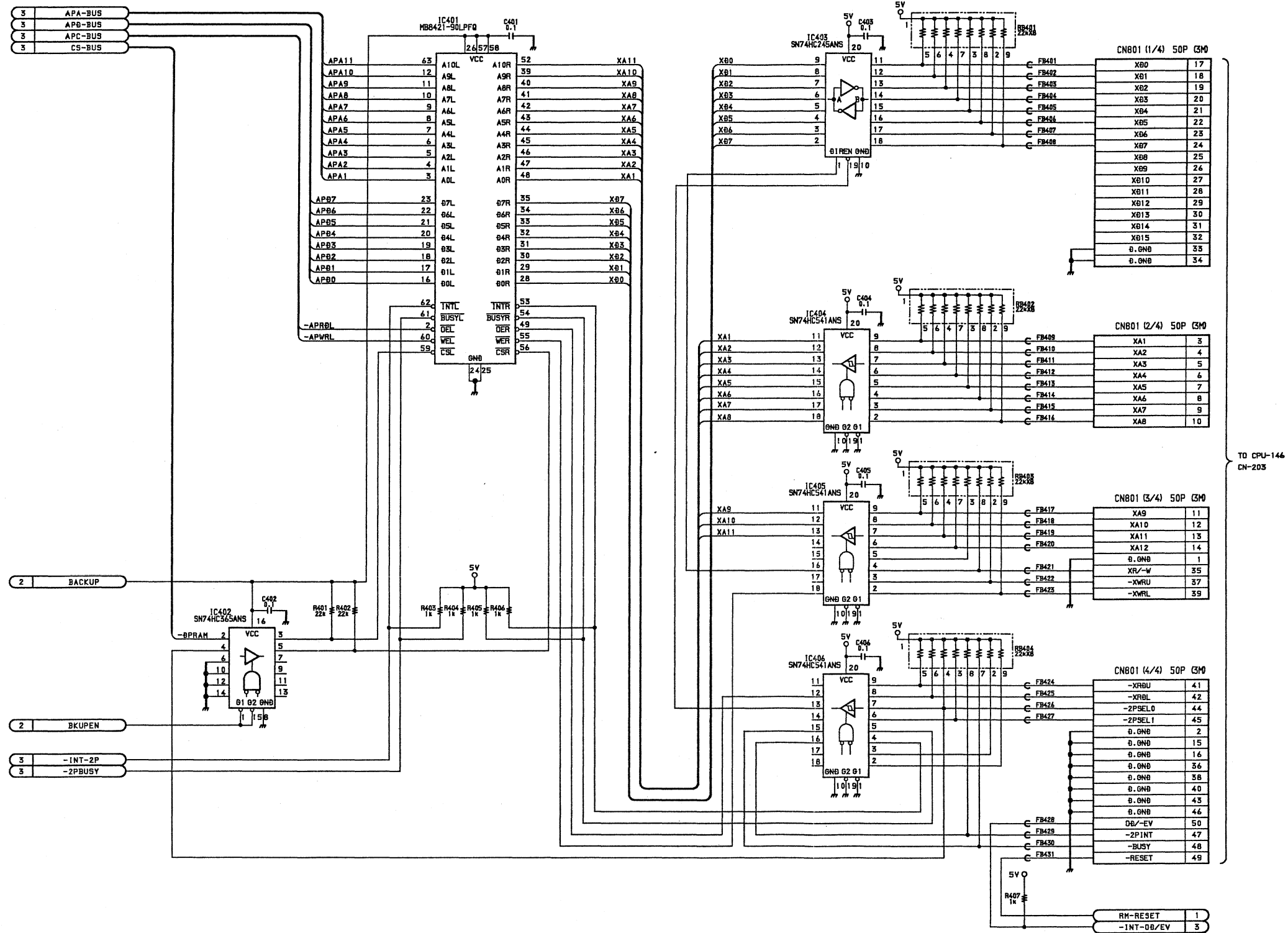
CPU Board
CPU-146 BOARD (2/7)

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CPU-146 (3/7)
DMBK-4001 (OPTION)

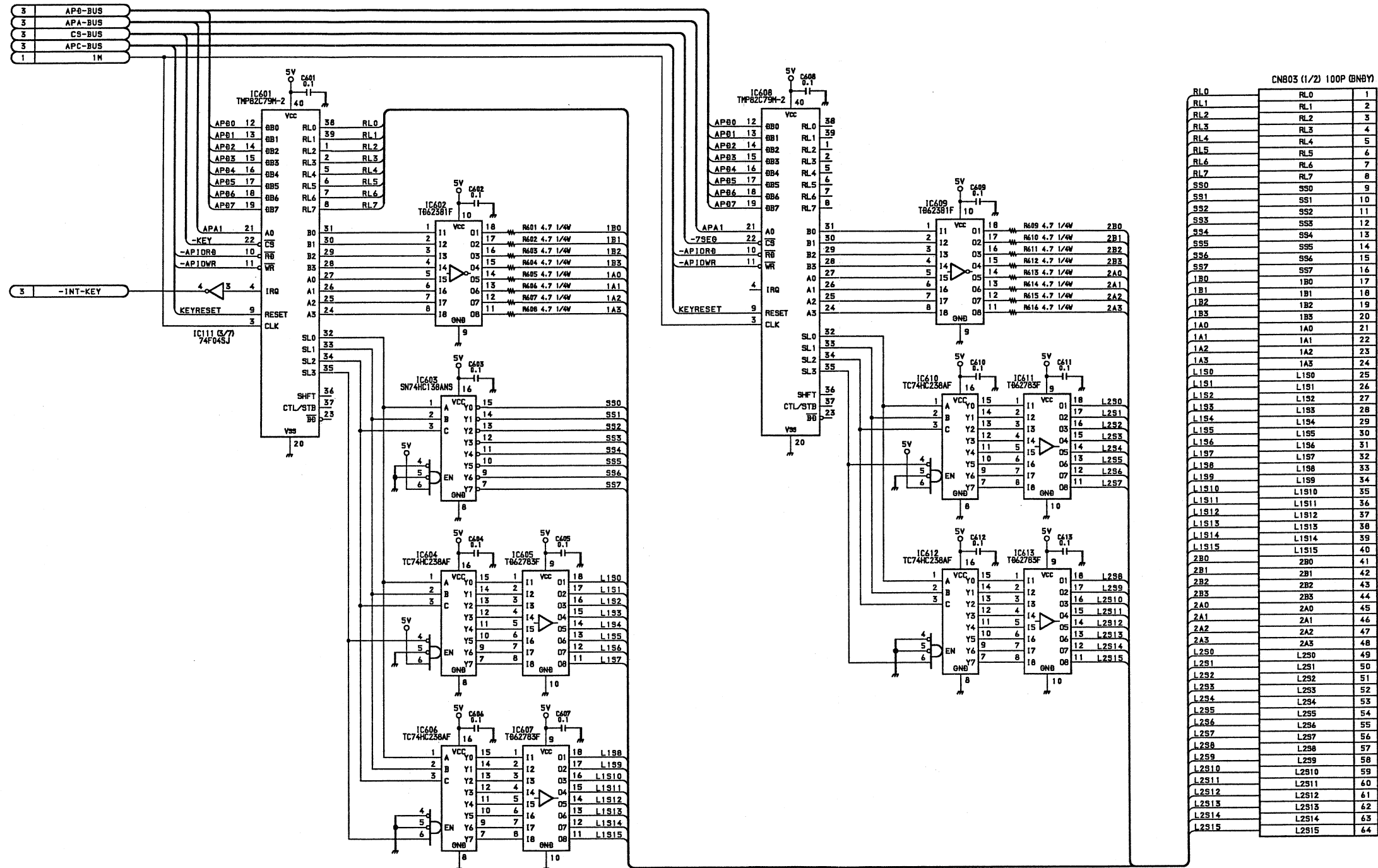




CPU Board
CPU-146 BOARD (4/7)

BOARD NO. 1-651-882-11
DMBX-4001

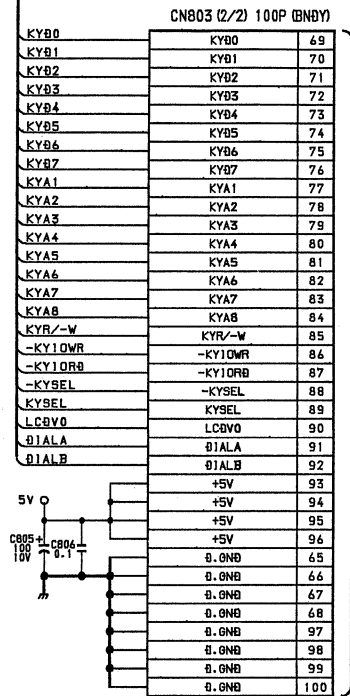




**CPU Board
CPU-146 BOARD (6/7)**

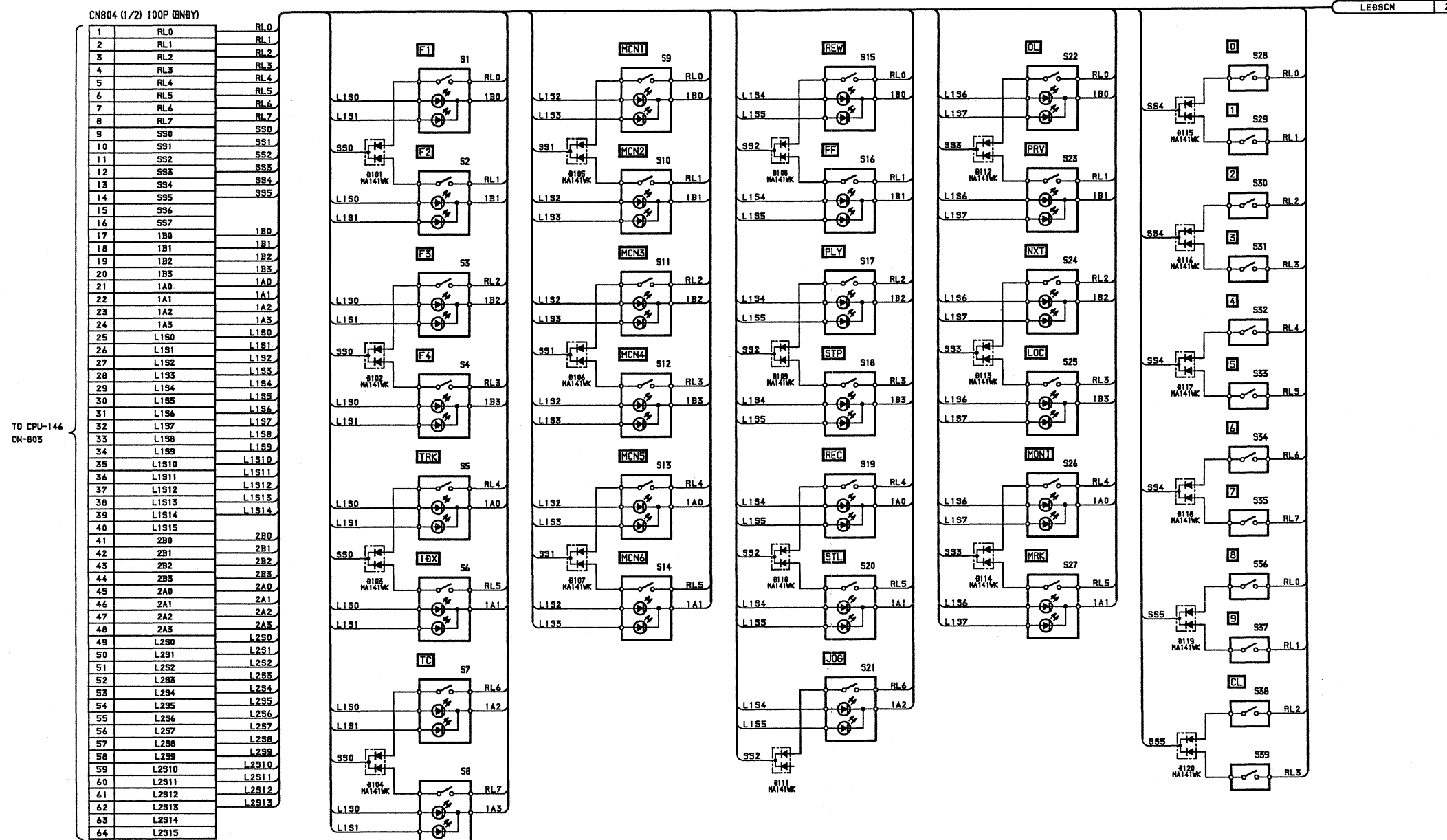
BOARD NO. 1-651-882-11
DMBK-4001

CPU-146 (7/7)
DMBK-4001 (OPTION)



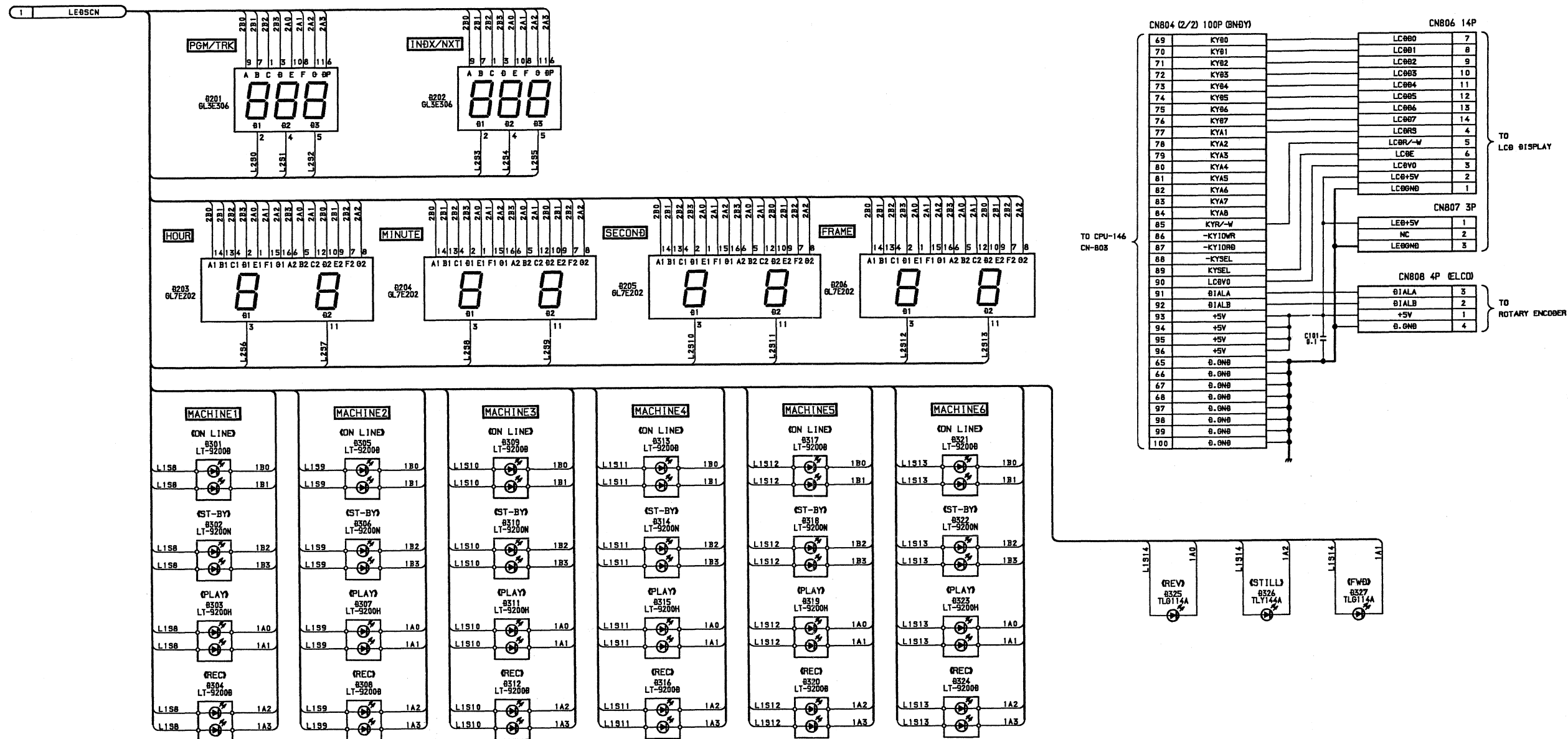
NOTE)
NOT IN USE: RV70

BOARD NO. 1-651-882-11
DMBX-4001



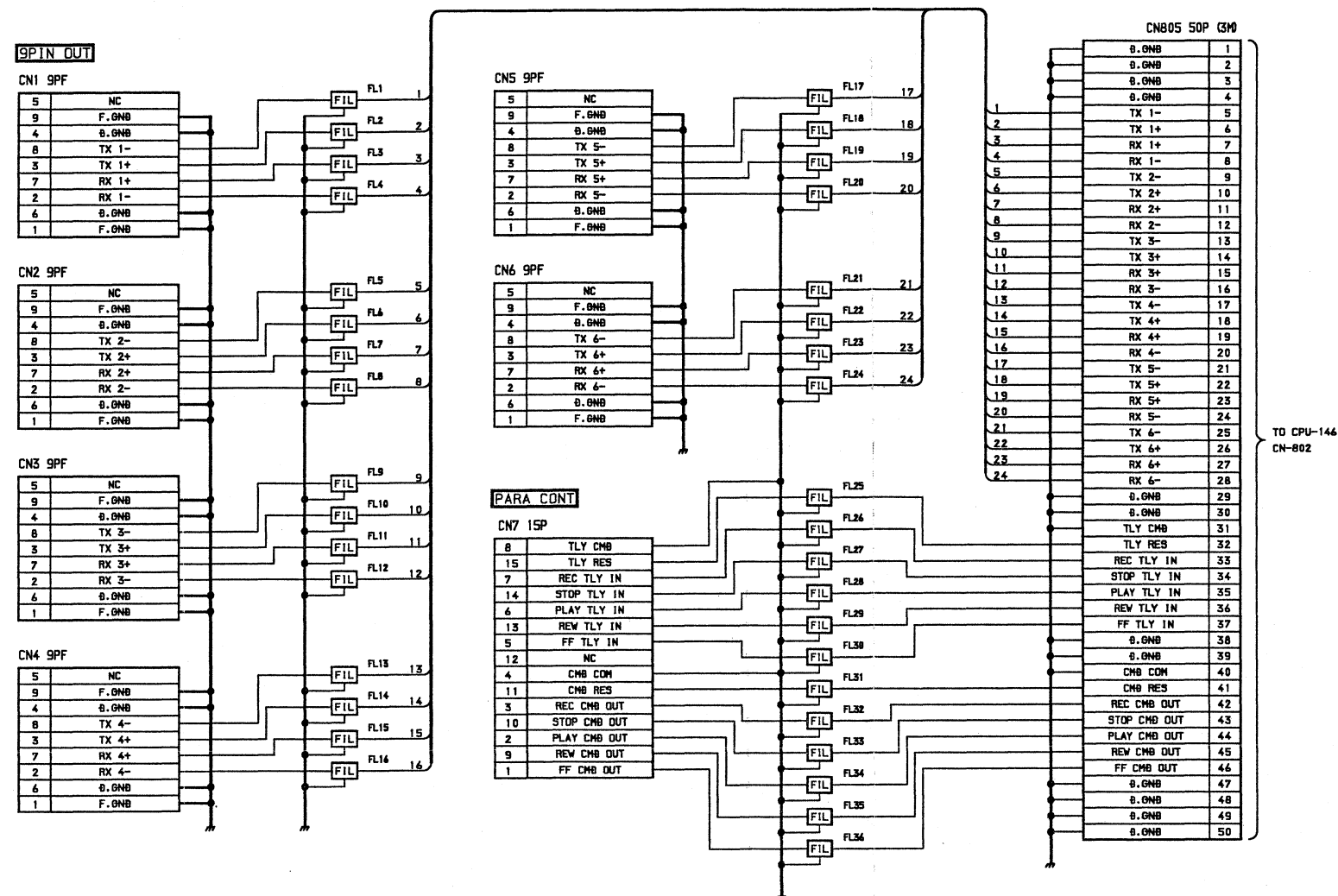
Switch Board KY-302 BOARD (1/2)

BOARD NO. 1-651-883-11
DMBX-4001



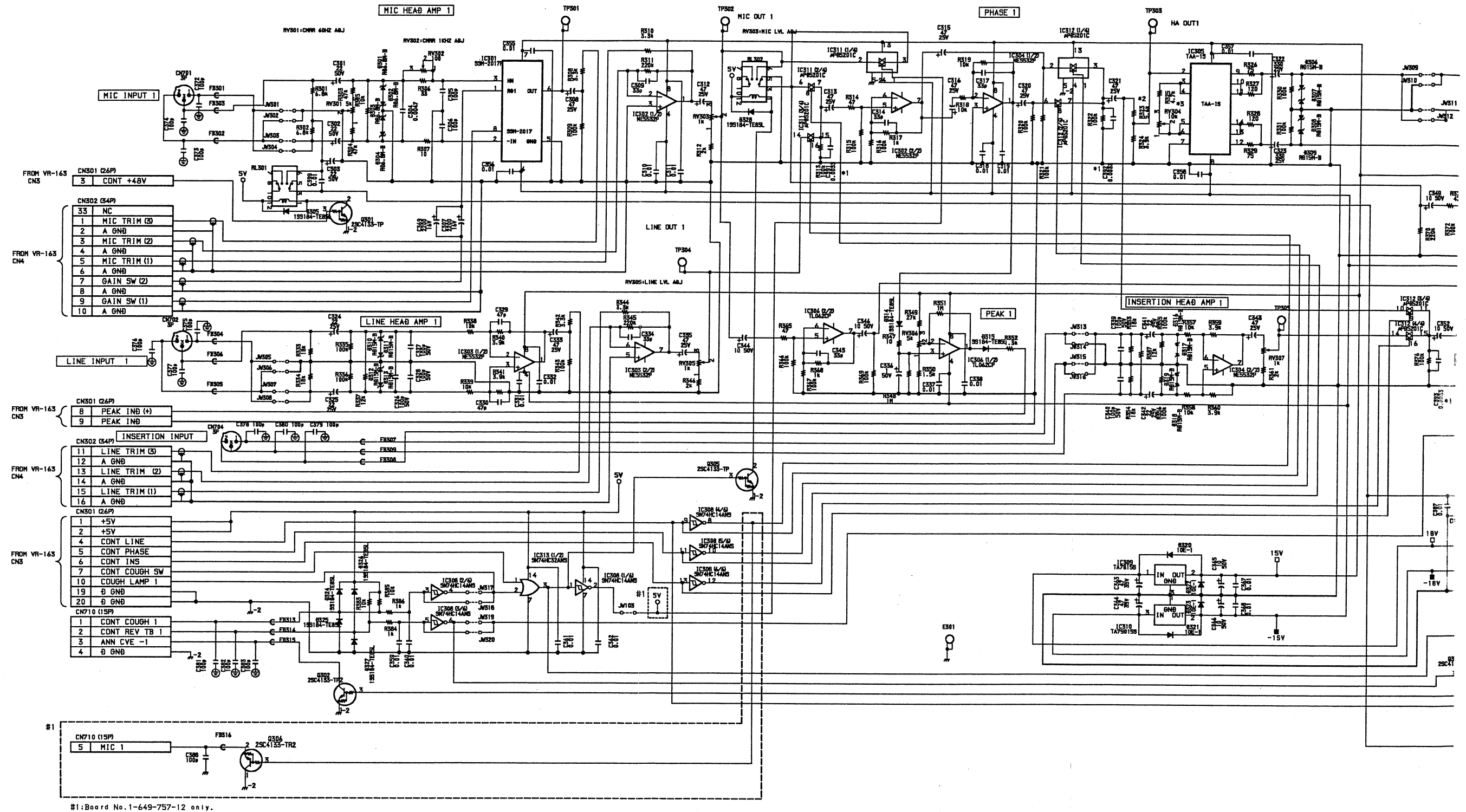
Switch Board KY-302 BOARD (2/2)

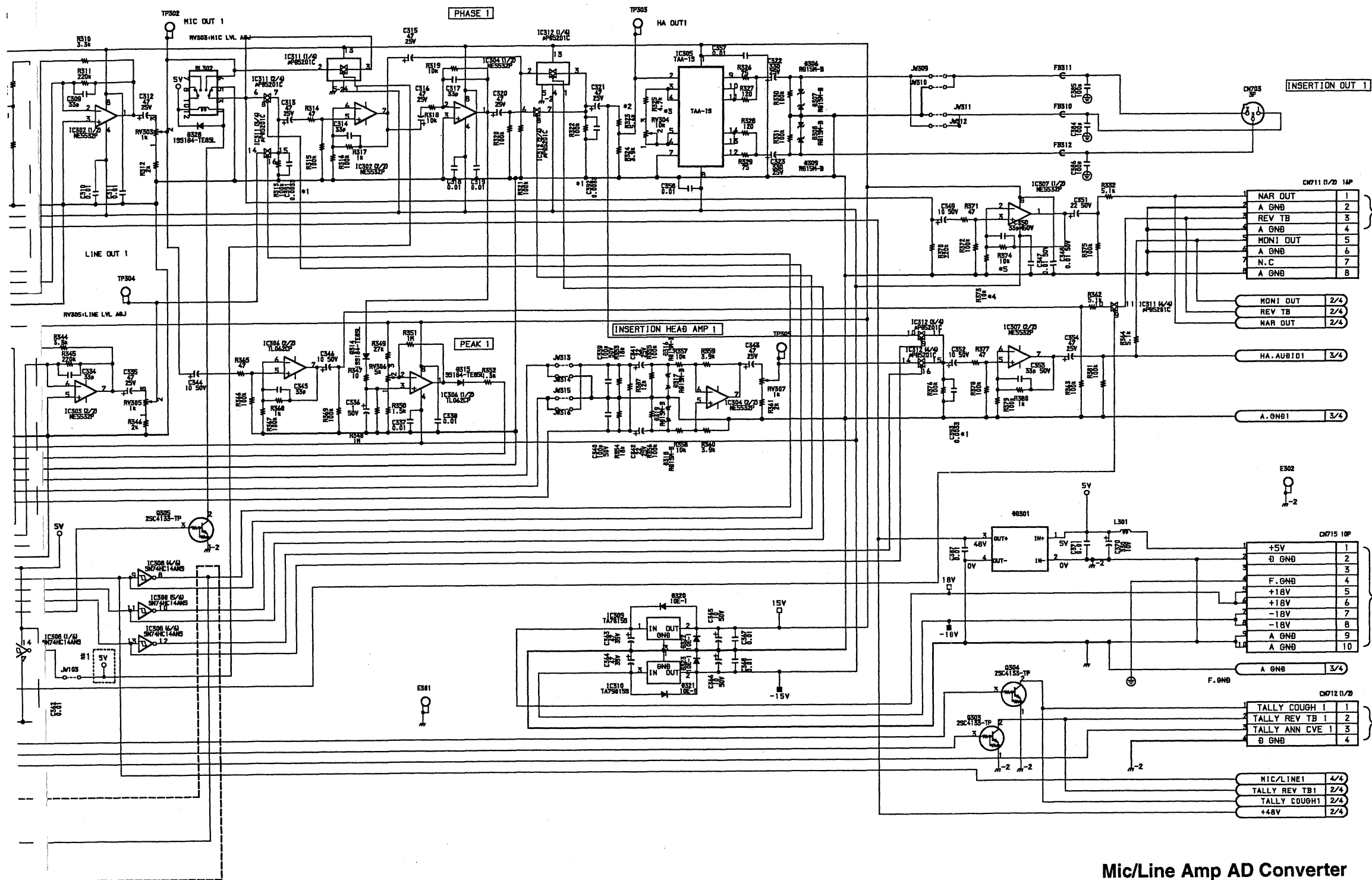
BOARD NO. 1-651-883-11
DMBK-4001



Connector Board
CN-842 BOARD

BOARD NO. 1-651-884-11
DMBX-4001





NOTE:

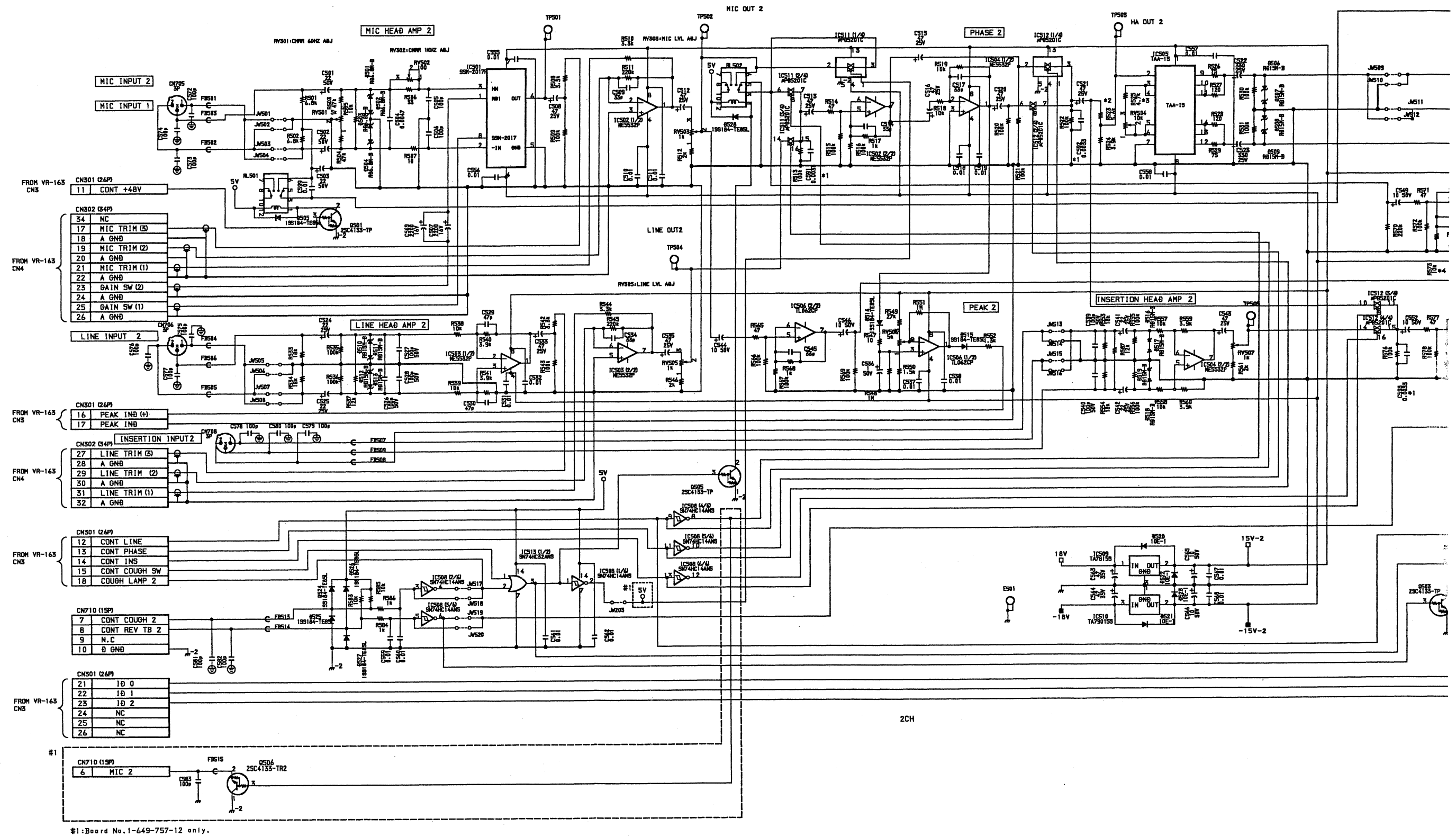
MARK	ADDRESS	CHANGES INFORMATION	SERIAL No.
#1	F2, B2, I3	C391, C392, C395 0.0055 → ADDITION	10016-
#2	B2	R325 10K → 5.6K	10016-
#3	H2	R325 10K → 4.7K	10016-
#4	I2	R373 100K → 10K	10056-
#5	I2	R374 1K → 10K	10056-

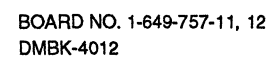
FROM P3-312
CN903, 904, 905 OR CN906

FROM TO IF-413
CN409

Mic/Line Amp AD Converter AD-100 BOARD (1/4)

BOARD NO. 1-649-757-11, 12
DMBK-4012

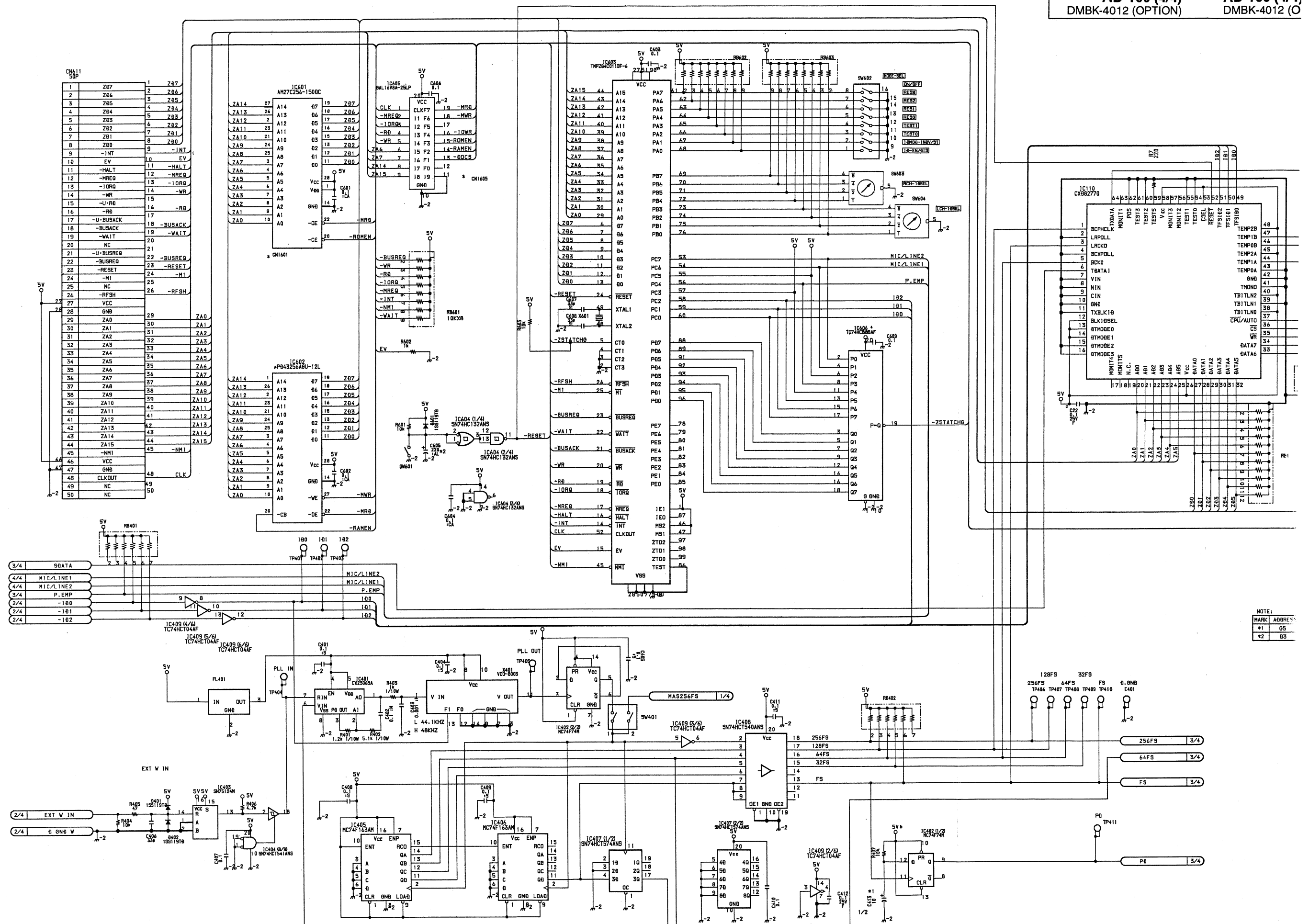


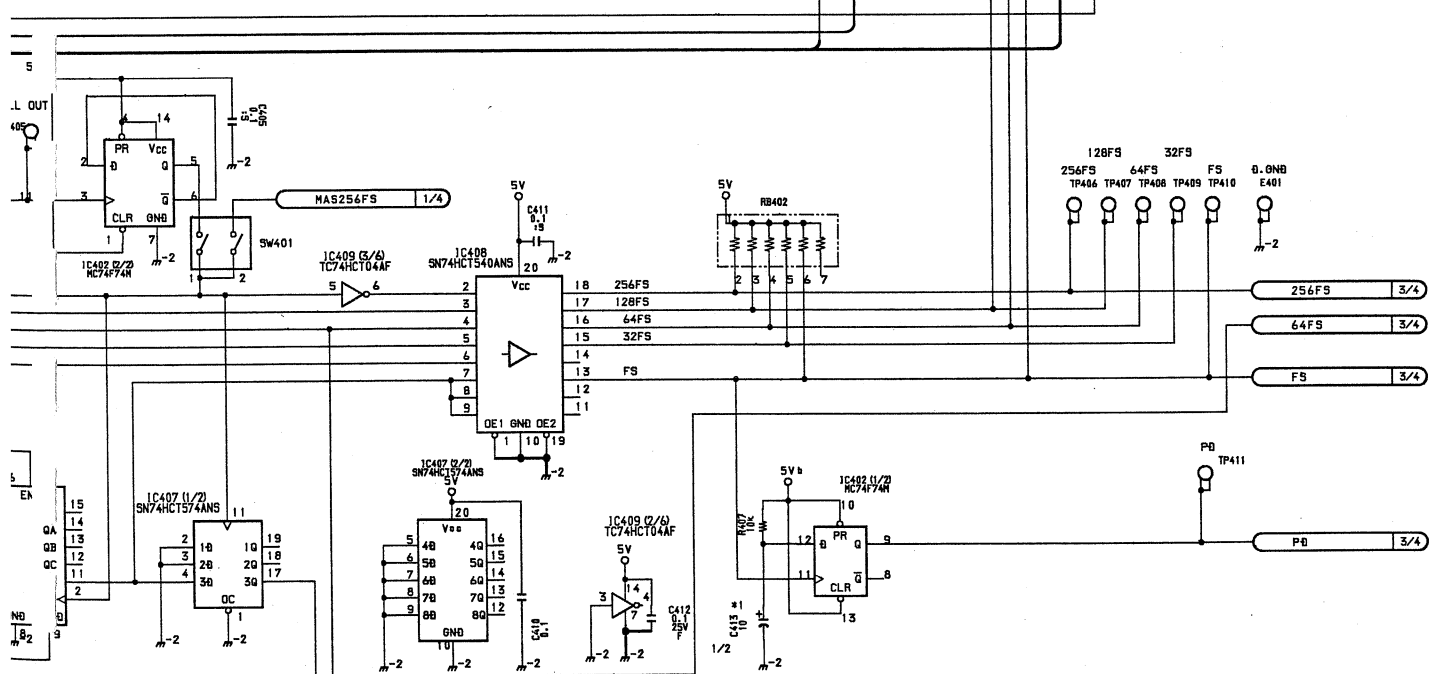
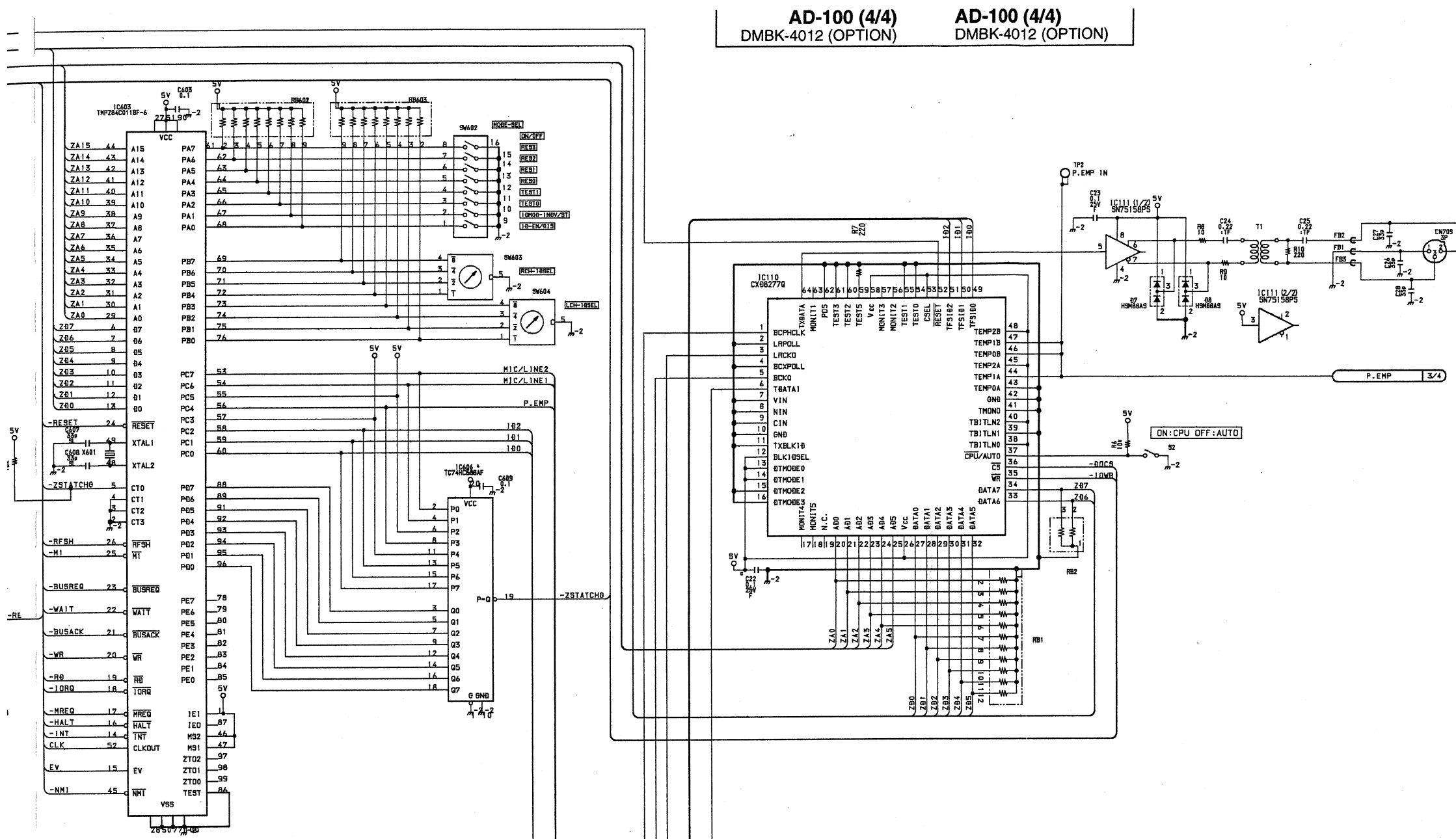


MARK	ADDRESS	CHANGED INFORMATION	SERIAL No.
#1	F2 02 13	C591, C592, C593 0.0035 → ADDITION	10016
#2	02	R523 10K → 5.6K	10016
#3	H2	R525 10K → 4.7K	10016
#4	12	R573 100K → 10K	10036
#5	12	R574 1K → 10K	10036

CN712 02/21	
5	IØ 0 5
4	IØ 1 6
3	IØ 2 7
8	MAS256FS 8
9	EXT W IN 9
10	Ø GND 10





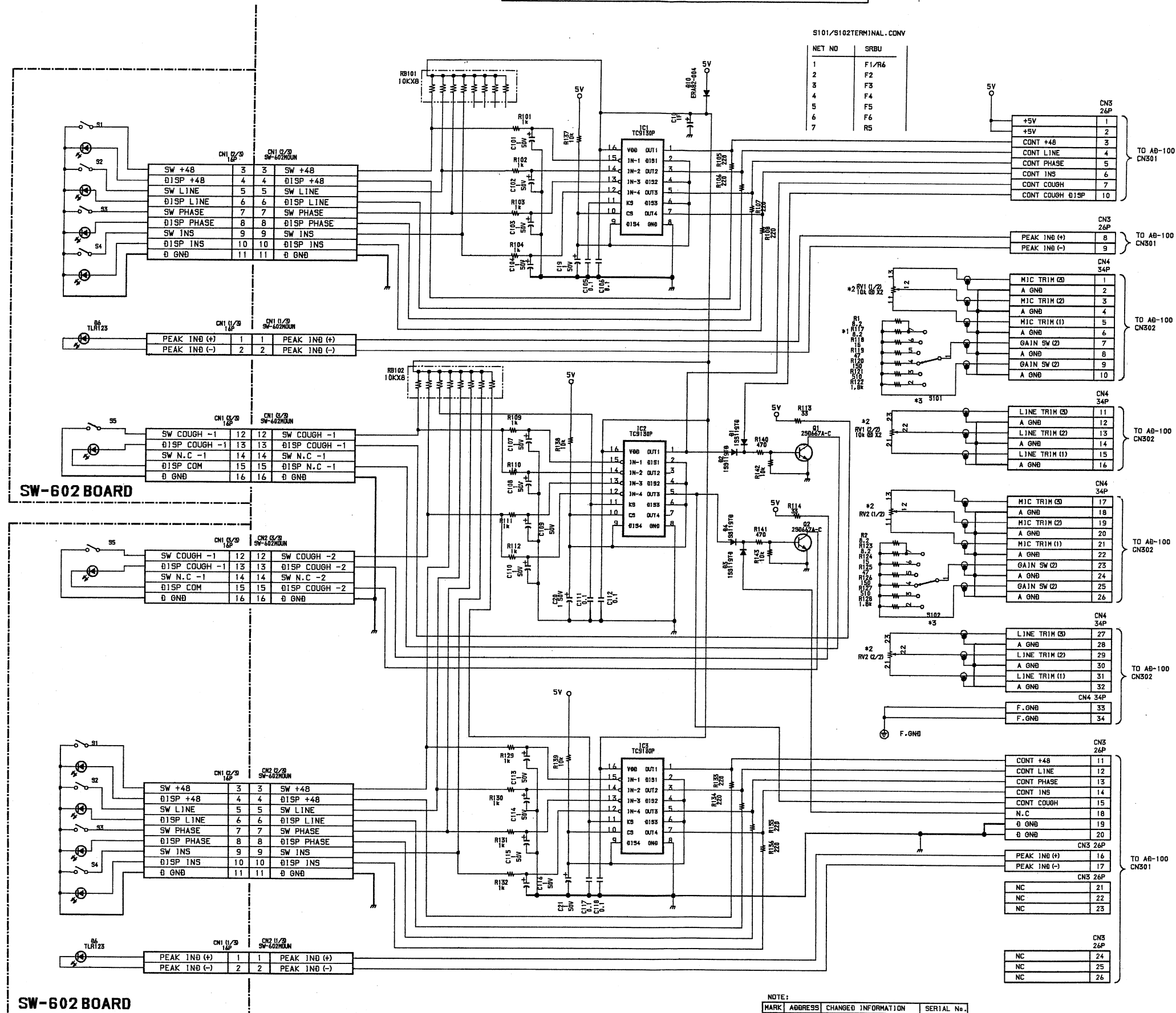


NOTE:

MARK	ADDRESS	CHANGED INFORMATION	SERIAL No.
*1	85	C415 1μ → 10μ	10036~
*2	85	C605 1μ → 220μ	10036~

Mic/Line Amp AD Converter AD-100 BOARD (4/4)

BOARD NO. 1-649-757-11, 12
DMBK-4012

Volume
VR-163 BOARD

BOARD NO. 1-649-758-11

Switch
SW-602 BOARD

BOARD NO. 1-649-759-11

DMBK-4012

SECTION 5

SEMICONDUCTOR PIN ASSIGNMENTS

ここに記載されているIC、トランジスタ、ダイオードは、それぞれの機能を等価的に表したものです。したがって互換性を表すものではありません。(互換性のない型名が併記されていることもあります。) 部品の交換をするときは、SPARE PARTSの章を参照してください。等価回路はICメーカーのData Bookに従いました。

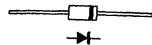
ICs, transistors and diodes whose functions are equivalent are described here. Therefore, incompatible device names may be described together. For parts replacement, refer to the Spare Parts section in this manual. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

TYPE	PAGE	TYPE	PAGE	TYPE	PAGE
DIODE		TRANSISTOR		74F163ASJ 5-7	
10E-1	5-3	2SA1015.....	5-4	74F164ASJ	5-7
10E-2	5-3	2SB1142.....	5-4	74F175SJ	5-7
1SS119	5-3	2SC1815	5-4	74F245SJ	5-7
1SS119TD	5-3	2SC2383	5-4	74F245SJX	5-7
1SS184	5-3	2SC2785	5-4	74F257ASJ	5-7
ERA82-004	5-3	2SC2785E	5-4	74F32PC	5-8
ERA85	5-3	2SC3668	5-4	74F32SJ	5-8
ESAB82-004	5-3	2SC4133	5-4	74F379SJ	5-8
ESAC33-02C	5-3	2SD1507M	5-41	74F541SJ	5-8
ESAC33-02CS	5-3	2SD667A	5-4	74F574SJ	5-8
ESAC33-02N	5-3	2SJ105	5-4	AM26LS30PC	5-8
ESAD83	5-3	2SK152	5-4	AM26LS31CNS	5-8
ESAE83-006	5-3	2SK30A	5-4	AM26LS31PC	5-8
FC52M	5-3	DTC124EF	5-4	AM26LS32ACNS	5-8
GL1HY51	5-3	DTC124XF	5-4	AM26LS32PC	5-8
HSM88AS	5-3			CX23065A	5-9
KV1460	5-41			CXD1160AQ	5-9
RD??ES	5-3	IC		CXD2705AQ	5-10
RD??ESB?	5-3	74AC04SJ	5-5	CXD8014G	5-10
RD??M	5-3	74AC04SJX	5-5	CXD8025Q	5-11
RD??M-B?	5-3	74AC08PC	5-5	CXD8125Q	5-12
S10SC4M	5-3	74AC08SJ	5-5	CXD8277Q	5-13
S10SC4MR	5-3	74AC163SJ	5-5	CXD8278AQ	5-14
		74AC175SJ	5-41	CXD8307Q	5-12
		74AC540SJ	5-5	CXK581000AM-70LL	5-39
		74AC541SJ	5-5	DF1760P	5-15
LED		74AC574SJ	5-5	DS1643-150	5-15
GL3E306	5-41	74AC574SJX	5-5	GAL16V8B-10LP	5-16
GL7E202	5-41	74AC74SJ	5-6	GAL16V8B-25LP	5-16
HDSP-8825	5-3	74AC74SJX	5-6	GAL22V10-15L	5-16
HLMP2965	5-4	74F00SJ	5-6	GAL22V10B-15LP	5-16
LN0603GP3	5-4	74F00SJX	5-6	HD63265FP	5-16
TLG114A	5-4	74F04PC	5-6	HD63484CP8	5-17
TLG124A	5-4	74F04SJ	5-41	HD63487CP	5-18
TLR123	5-4	74F04SJX	5-6	HM514402BZ-8	5-19
TLY114A	5-4	74F139SJ	5-6	ICL7665ACSA	5-19
TLY124	5-4	74F151ASJ	5-6	ICL7665SCPA	5-19
		74F161ASJ	5-6	LM1881N	5-19

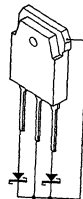
MICONDUCTOR INDEX

TYPE	PAGE	TYPE	PAGE	TYPE	PAGE
M27C256B-15F1	5-20	SN74HC125ANS	5-28	TA7815S	5-33
M27C4002-10F1	5-20	SN74HC126ANS	5-28	TA79005S	5-24
M27C4002-12F1	5-20	SN74HC132ANS	5-28	TA79015S	5-24
MAX232CWE	5-41	SN74HC138ANS	5-28	TC4011UBP	5-33
MAX238CNG	5-21	SN74HC139ANS	5-28	TC514256BZ-60	5-33
MB8421-90LPFQ	5-21	SN74HC14AN	5-29	TC74AC04F	5-43
MB8431-90LPFQ	5-22	SN74HC14ANS	5-29	TC74AC175F	5-34
MB88346BPF	5-42	SN74HC151ANS	5-29	TC74AC175P	5-34
MC34051M	5-21	SN74HC153ANS	5-29	TC74HC07AF	5-34
MC34051P	5-21	SN74HC157ANS	5-29	TC74HC07AP	5-34
MC68302FC16	5-23	SN74HC163AN	5-5	TC74HC123AF	5-34
MC68302FC16C	5-23	SN74HC163ANS	5-5	TC74HC123AP	5-34
MC74F04M	5-6	SN74HC164ANS	5-29	TC74HC21AF	5-30
MC74F04N	5-6	SN74HC165ANS	5-30	TC74HC238AF	5-34
MC74F08M	5-21	SN74HC21ANS	5-30	TC74HC377AF	5-31
MC74F163AM	5-42	SN74HC240ANS	5-30	TC74HC390P	5-24
MC74F21M	5-21	SN74HC245AN	5-30	TC74HC4028AF	5-34
MC74F245M	5-7	SN74HC245ANS	5-30	TC74HC4028F	5-43
MC74F32M	5-8	SN74HC251ANS	5-31	TC74HC4072AP	5-34
MC74F32N	5-8	SN74HC259AN	5-23	TC74HC688AF	5-35
MC74F74M	5-42	SN74HC259ANS	5-23	TC9130P	5-35
MC74F803N	5-22	SN74HC27AN	5-31	TD62381F	5-35
MC74HC259N	5-23	SN74HC32ANS	5-31	TD62381P	5-35
MC74HC390F	5-24	SN74HC365ANS	5-31	TD62783AF	5-35
MC74HC390N	5-24	SN74HC377ANS	5-31	TD62783F	5-35
MC74HC4075N	5-24	SN74HC393ANS	5-31	TL062CP	5-35
MC74HC540N	5-24	SN74HC4040ANS	5-32	TL072CPS	5-35
MC74HC74AN	5-6	SN74HC4075AN	5-24	TL082ACP	5-35
MC7805CT	5-24	SN74HC51NS	5-43	TL082CP	5-35
MC7815CT	5-24	SN74HC540AN	5-24	TL084CN	5-35
MC7915CT	5-24	SN74HC540ANS	5-24	TL7705ACP	5-36
NE5532P	5-24	SN74HC541AN	5-5	TL7705ACPS	5-36
NJM7812FA	5-24	SN74HC541ANS	5-5	TMP82C79M-2	5-36
NJM7815FA	5-42	SN74HC574AN	5-5	TMP284C011BF-6	5-37
NJM78L05A	5-25	SN74HC574ANS	5-5	TMP284C015BF-6	5-38
NJM7912FA	5-25	SN74HC74AN	5-6	TMS27C210A-12JL	5-36
NJM7915FA	5-42	SN74HC74ANS	5-6	UPC1238H	5-39
NJM79L05A	5-25	SN74HCT541AN	5-5	UPC4558C	5-26
PC837	5-42	SN74LS00NS	5-6	UPC7805H	5-24
PCM1760P	5-25	SN74LS145NS	5-32	UPC814C	5-39
PCM63P-K	5-26	SN74LS14NS	5-32	UPD431000AGW-10LL	5-39
PCM69AP	5-26	SN74LS156NS	5-32	UPD431000AGW-70L	5-39
RC4558P	5-26	SN74LS540NS	5-5	UPD431000AGW-70LL	5-39
SM5813APT	5-26	SN74LS624NS	5-32	UPD43256AGU-10L	5-40
SM583AP1	5-27	SN75123N	5-32	UPD43256AGU-10LL	5-40
SM5842APT	5-27	SN75123NS	5-32	UPD43256AGU-12L	5-40
SN74HC00AN	5-27	SN75124N	5-33	UPD4702G	5-43
SN74HC00ANS	5-27	SN75124NS	5-33	UPD4704G	5-43
SN74HC02ANS	5-28	SN75158PS	5-33	UPD5201C	5-40
SN74HC04AN	5-5	SSM-2017P	5-33	UPD7004C	5-40
SN74HC04ANS	5-5	SSM-2142P	5-33		
SN74HC08ANS	5-5	TA7805S	5-33		
SN74HC10AN	5-28	TA7812S	5-33		

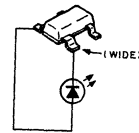
DIODE, LED



10E-1
10E-2
1SS119
1SS119TD
ERA85

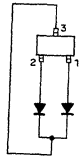


ESAD83



GL1HY51 ; YELLOW

TOP VIEW

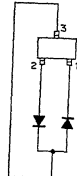


1SS184



ESAE83-006

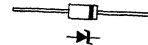
(SCALE 4/1)
TOP VIEW



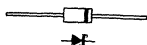
HSM88AS



FC52M



RD ? ? ES
RD ? ? ESB ?

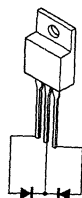


ERA82-004

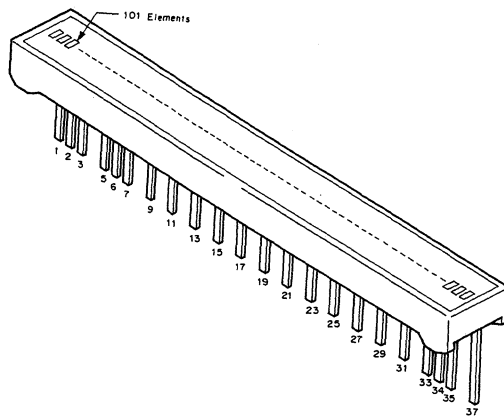
(SCALE 4/1)
TOP VIEW



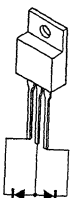
RD ?? M
RD ?? M-B ?



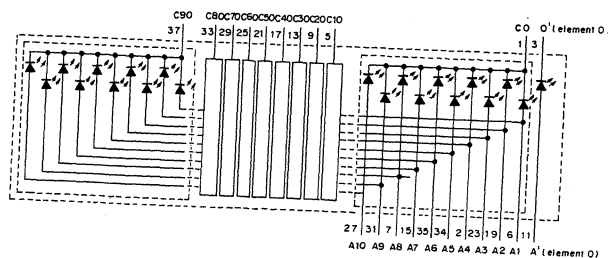
ESAB82-004
ESAC33-02C
ESAC33-02CS
S10SC4M



HDSP-8825 ; RED

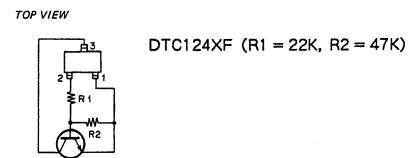
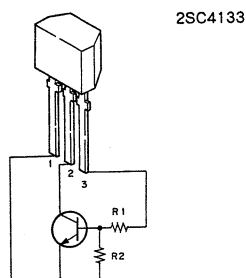
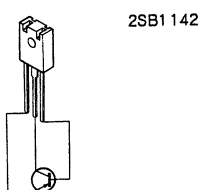
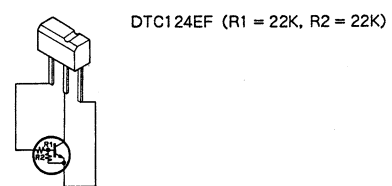
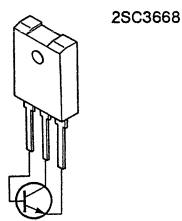
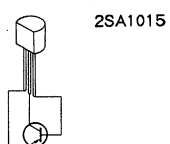
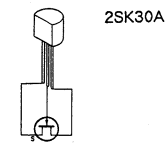
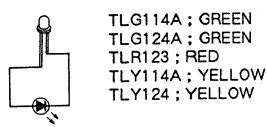
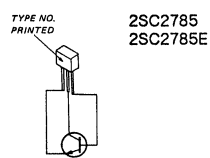
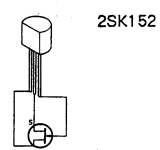
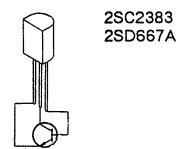
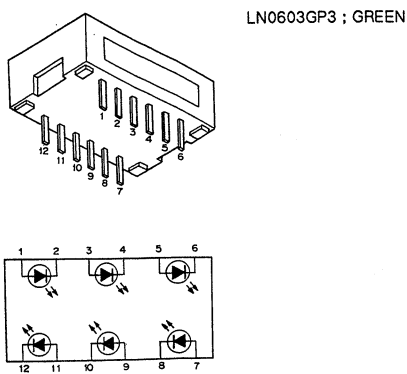
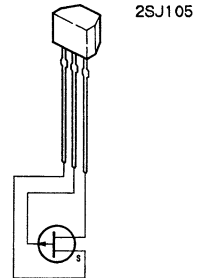
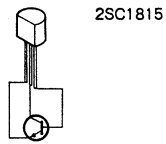
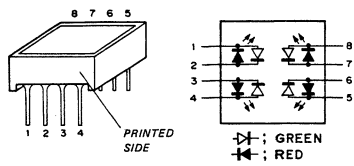


ESAC33-02N
S10SC4MR



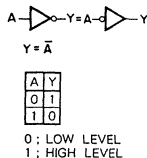
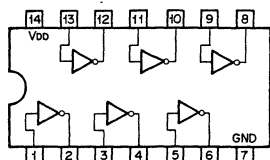
A1 to A10 : Common Anode
C0 to C90 : Common Cathode

ED, TRANSISTOR



74AC04SJ (NS) FLAT PACKAGE
74AC04SJX (NS)
SN74HC04AN (TI)
SN74HC04ANS (TI) FLAT PACKAGE

C-MOS HEX INVERTERS
- TOP VIEW -

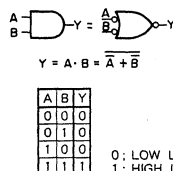
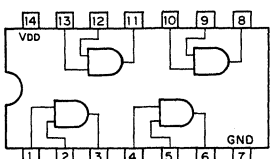


NOTE:

TYPE	V _{DD}
74HCT04 TYPE	+5V
TC74AC04 TYPE	+2 to +5.5V
TC74VHC04 TYPE	+2 to +5.5V
74ACT04 TYPE	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

74AC08PC (NS)
74AC08SJ (NS) FLAT PACKAGE
SN74HC08ANS (TI) FLAT PACKAGE

C-MOS QUAD 2-INPUT AND GATES
- TOP VIEW -

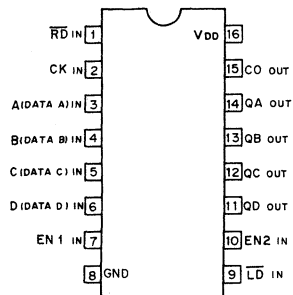


NOTE:

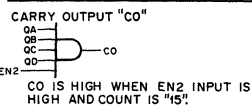
TYPE	V _{DD}
TC74AC08F	+2 to +5.5V
MC74ACT08M	+2 to +5.5V
TC40H	+2 to +8V
OTHER TYPES	+2 to +6V

74AC163SJ (NS)
SN74HC163AN (TI)
SN74HC163ANS (TI) FLAT PACKAGE

C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
- TOP VIEW -

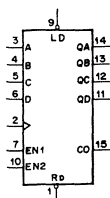


MODE SELECTION					MODE
CONTROL INPUTS	RD	LD	EN1	EN2	
0	X	X	X	X	RESET (SYNCHRONOUS)
1	0	X	X	X	PRESET (SYNCHRONOUS)
1	1	0	X	X	NO COUNT
1	1	X	0	X	NO COUNT
1	1	1	1	1	COUNT



NOTE:

TYPE	V _{DD}
74ACT163 TYPE	+5V
TC74AC163 TYPE	+2 to +5.5V
OTHER TYPES	+2 to +6V

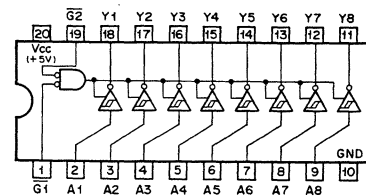


COUNT SEQUENCE

COUNT	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

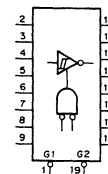
74AC540SJ (NS) FLAT PACKAGE
SN74LS540NS (TI) FLAT PACKAGE

TTL OCTAL LINE BUFFERS/DRIVERS WITH 3-STATE OUTPUTS
- TOP VIEW -



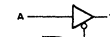
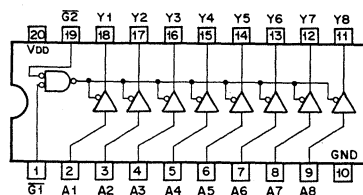
G1	G2	A	Y
0	0	0	1
0	0	1	0
1	X	X	HI-Z
X	1	X	HI-Z

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE



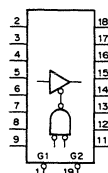
74AC541SJ (NS) FLAT PACKAGE
SN74HC541AN (TI)
SN74HC541ANS (TI) FLAT PACKAGE
SN74HCT541AN (TI)

C-MOS BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS
- TOP VIEW -



G1	G2	A	Y
0	0	0	0
0	0	1	1
1	X	X	HI-Z
X	1	X	HI-Z

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE

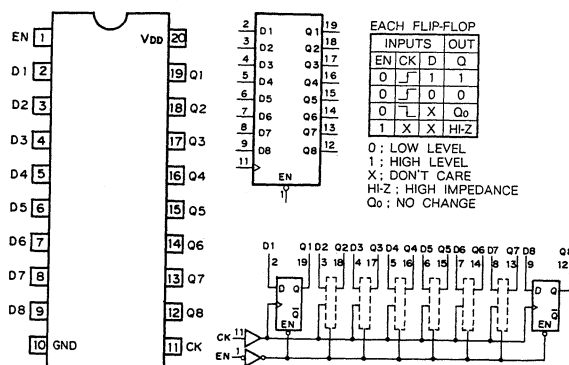


NOTE:

TYPE	V _{DD}
ACVHC	+2 to +5.5V
HC	+2 to +6V
ACT/BCT/HCT	+5V

74AC574SJ (NS) FLAT PACKAGE
74AC574SJX (NS)
SN74HC574AN (TI)
SN74HC574ANS (TI) FLAT PACKAGE

C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP
- TOP VIEW -



EACH FLIP-FLOP					INPUTS	OUT
EN	CK	D	Q	Q0		
0	1	1	1	1	0	0
0	1	0	0	0		
0	1	X	X	Q0		
1	X	X	X	HI-Z	1	1
1	X	0	0	0		
1	X	1	1	1		

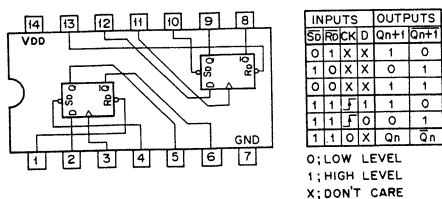
0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE
Q0: NO CHANGE

NOTE:

TYPE	V _{DD}
74AC/74HC	+2 to +6V
74ACT/74FCT/74HCT	+5V
TC74AC574F	+2 to +5.5V
TC74VHC574	+2 to +5.5V

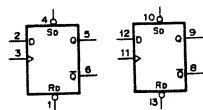
74AC74SJ (NS) FLAT PACKAGE
74AC74SJX (NS)
MC74HC74AN (MOTOROLA)
SN74HC74AN (TI)
SN74HC74ANS (TI) FLAT PACKAGE

C-MOS DUAL D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET
- TOP VIEW -



INPUTS	OUTPUTS
S0 R0 CK D Qn+1 Qn+1	
0 1 X X 1 0	
1 0 X X 0 1	
0 0 X X 1 1	
1 1 X X 0 0	
1 1 1 1 0 1	
1 1 1 1 0 0	
1 1 1 1 0 1	
1 1 1 1 0 0	

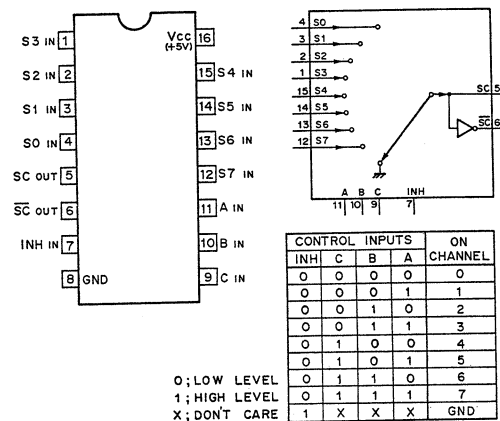
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE



NOTE:

TYPE	VDD
TC74HC74AF	+5V
TC74AC74 TYPE	+2 to +5.5V
74ACT74 TYPE	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

74F151ASJ (FSC)
TTL 8-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
- TOP VIEW -

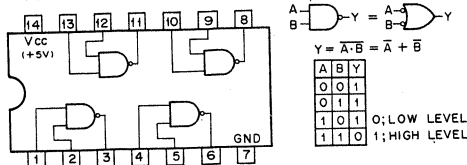


CONTROL INPUTS	ON CHANNEL
INH C B A	
0 0 0 0	0
0 0 0 1	1
0 0 1 0	2
0 0 1 1	3
0 1 0 0	4
0 1 0 1	5
0 1 1 0	6
0 1 1 1	7
1 X X X	GND

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

74F00SJ (NS) FLAT PACKAGE
74F00SJX (NS)
SN74LS00NS (TI)

TTL 2-INPUT POSITIVE-NAND GATE
- TOP VIEW -



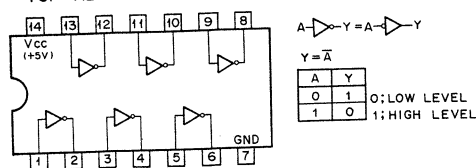
$A \cdot B = \overline{A + B}$

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0; LOW LEVEL
1; HIGH LEVEL

74F04PC (NS)
74F04SJX (NS)
MC74F04M (MOTOROLA)
MC74F04N (MOTOROLA)

TTL INVERTER
- TOP VIEW -

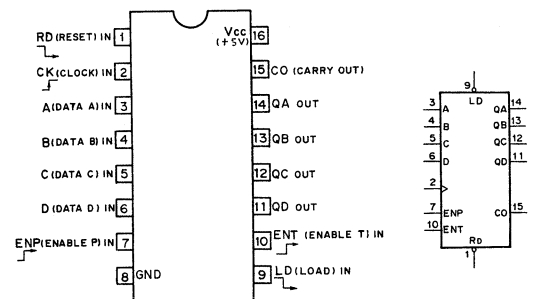


$A \cdot \overline{A} = 0$

A	Y
0	1
1	0

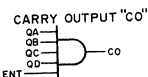
0; LOW LEVEL
1; HIGH LEVEL

74F161ASJ (FSC)
TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
- TOP VIEW -



MODE SELECTION	MODE
RD LD ENP ENT	
0 X X X	RESET (ASYNCHRONOUS)
1 0 X X	PRESET (SYNCHRONOUS)
1 1 0 X	NO COUNT
1 1 X 0	NO COUNT
1 1 1 1	COUNT

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

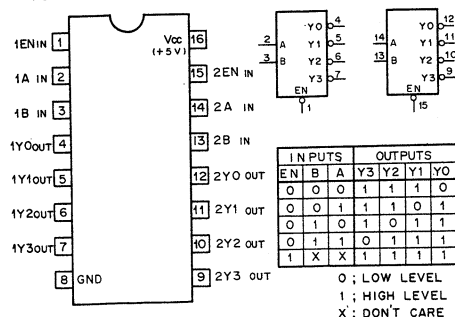


CO IS HIGH WHEN ENT INPUT IS HIGH AND COUNT IS "15"

COUNT SEQUENCE	COUNT	QD	QC	QB	QA
0	0	0	0	0	0
1	0	0	0	1	0
2	0	0	1	0	0
3	0	0	1	1	0
4	0	1	0	0	0
5	0	1	0	1	0
6	0	1	1	0	0
7	0	1	1	1	0
8	1	0	0	0	0
9	1	0	0	1	0
10	1	0	1	0	0
11	1	0	1	1	0
12	1	1	0	0	0
13	1	1	0	1	0
14	1	1	1	0	0
15	1	1	1	1	0

74F139SJ (NS) FLAT PACKAGE

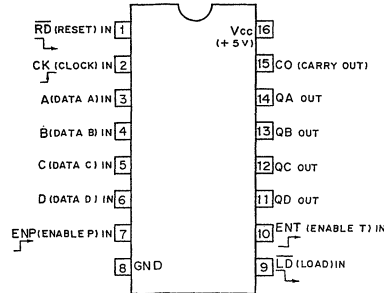
TTL 2-TO-4-LINE DECODER/DEMULPLEXER
- TOP VIEW -



INPUTS	OUTPUTS
EN B A Y3 Y2 Y1 Y0	
0 0 0 1 1 1 0	
0 0 1 1 1 0 1	
0 1 0 1 0 1 1	
0 1 1 0 1 1 1	
1 X X 1 1 1 1	

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

74F163ASJ (NS) FLAT PACKAGE

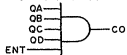
TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
- TOP VIEW -

MODE SELECTION

CONTROL INPUTS				MODE
R _D	L _D	ENP	ENT	
0	X	X	X	RESET (SYNCHRONOUS)
1	0	X	X	PRESET (SYNCHRONOUS)
1	1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

CARRY OUTPUT "CO"

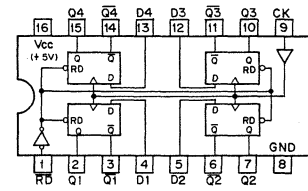


CO IS HIGH WHEN ENT INPUT IS HIGH AND COUNT IS '15'.

COUNT SEQUENCE

COUNT	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

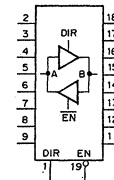
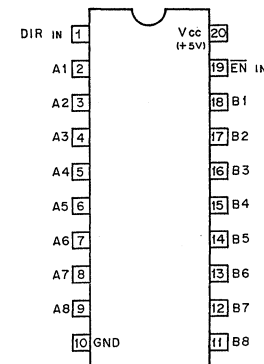
74F175SJ (NS) FLAT PACKAGE

TTL D-TYPE FLIP-FLOP WITH CLEAR
- TOP VIEW -

RD	CK	D	Q
0	X	X	0
1	1	1	0
1	1	0	1
1	0	X	Q

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

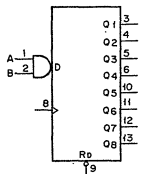
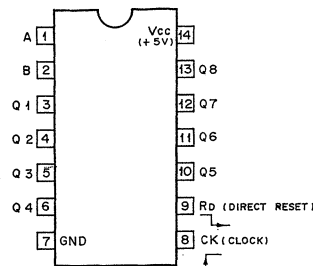
74F245SJ (NS) FLAT PACKAGE

74F245SJX (NS)
MC74F245M (MOTOROLA) FLAT PACKAGETTL BILATERAL SCHMITT TRIGGER BUS TRANSCEIVERS WITH 3-STATE OUTPUTS
- TOP VIEW -

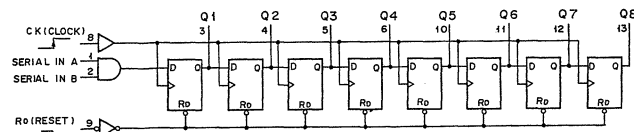
EN	DIR	OPERATION
0	0	B to A
0	1	A to B
1	X	HI-Z

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE

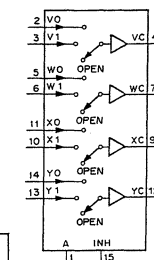
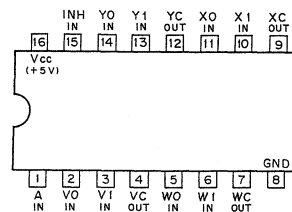
74F164ASJ (NS)

TTL 8-BIT PARALLEL-OUT SERIAL SHIFT REGISTER
- TOP VIEW -

INPUTS				OUTPUTS			
Rd	CK	A	B	Q1	Q2	---	Q8
0	X	X	X	0	0	0	0
1	0	X	X	Q1o	Q2o	---	Q8o
1		1	1	1	Q1n	---	Q7n
1		0	X	0	Q1n	---	Q7n
1		X	0	0	Q1n	---	Q7n

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

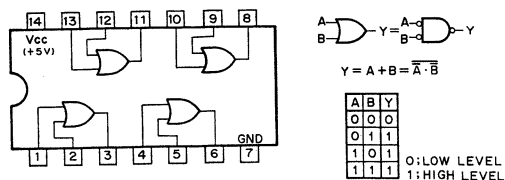
74F257ASJ (NS) FLAT PACKAGE

TTL 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
- TOP VIEW -0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

CONT. IN		ON CHANNEL
INH	A	
0	0	0
0	1	1
1	X	OPEN

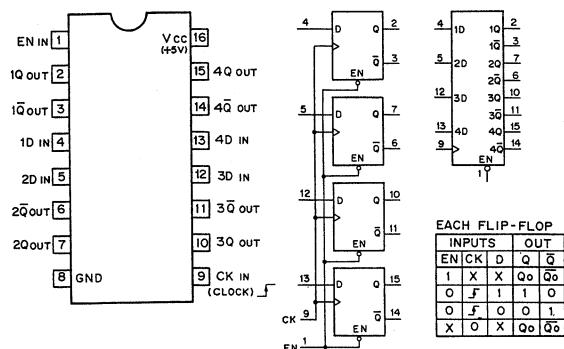
74F32PC (NS)
74F32SJ (NS)
MC74F32M (MOTOROLA)
MC74F32N (MOTOROLA)

TTL 2-INPUT POSITIVE-OR GATE
- TOP VIEW -



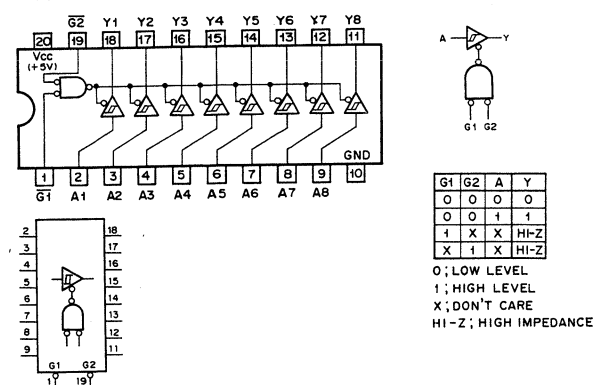
74F379SJ (NS)

TTL QUAD D-TYPE FLIP-FLOP WITH ENABLE
- TOP VIEW -



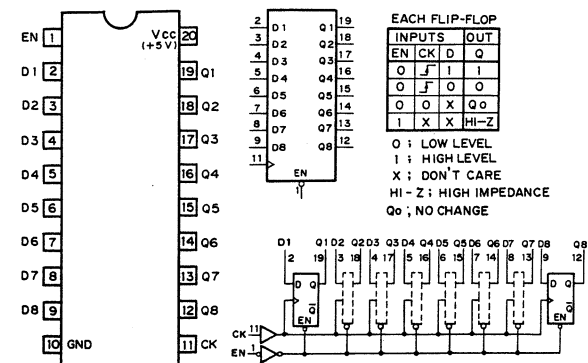
74F541SJ (NS) FLAT PACKAGE

TTL BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS
- TOP VIEW -



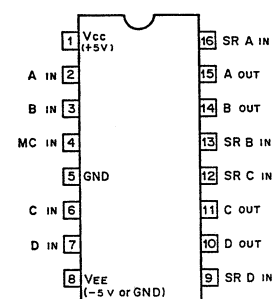
74F574SJ (NS) FLAT PACKAGE

TTL 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP
- TOP VIEW -



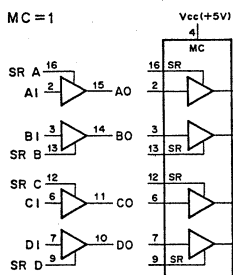
AM26LS30PC (ADVANCE MICRO DEVICES)

LINE DRIVER
- TOP VIEW -



MC: MODE CONTROL
SR: SLEW RATE CONTROL

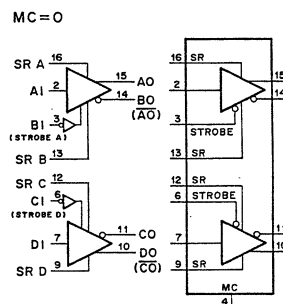
MC = 1



INPUTS	OUTPUTS
MC A TO D	A TO D
1 0 0	0
1 1 1	1

0: LOW LEVEL X: DON'T CARE
1: HIGH LEVEL HI-Z: HIGH IMPEDANCE

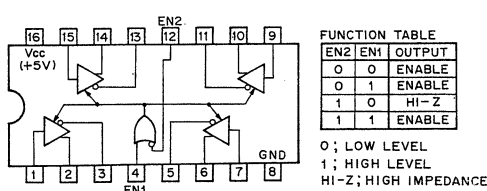
MC = 0



INPUTS	OUTPUTS
MC STROBE A & D	A & D B & C
0 0 0 0	0 1
0 0 1 1	0
0 1 X	HI-Z HI-Z

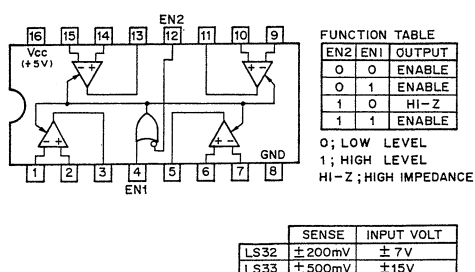
AM26LS31CNS (TI) FLAT PACKAGE
AM26LS31PC (ADVANCE MICRO DEVICES)

HIGH SPEED DIFFERENTIAL LINE DRIVER
- TOP VIEW -



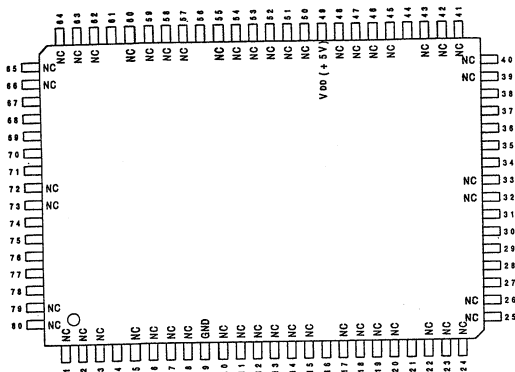
AM26LS32ACNS (TI) FLAT PACKAGE
AM26LS32PC (ADVANCE MICRO DEVICES)

HIGH SPEED DIFFERENTIAL LINE RECEIVER
- TOP VIEW -

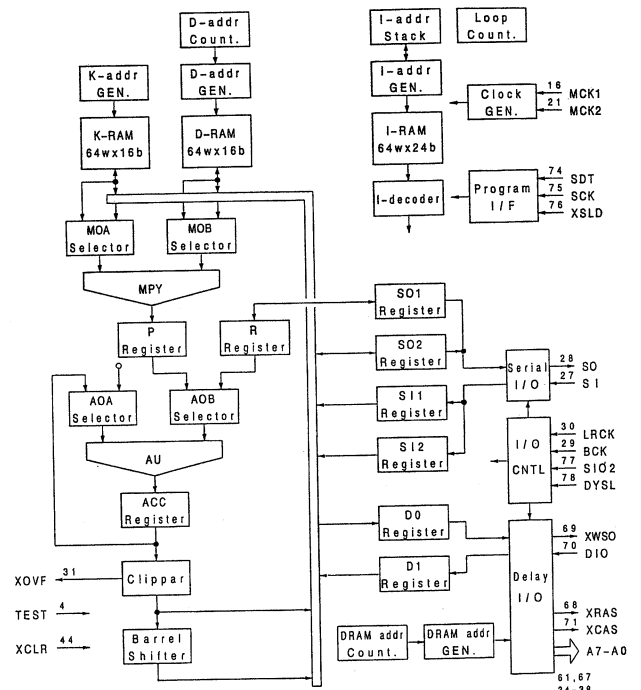


SENSE	INPUT VOLT
LS32	±200mV ±7V
LS33	±500mV ±15V

CXD1160AQ (SONY)
C-MOS DIGITAL AUDIO SIGNAL PROCESSOR
- TOP VIEW -



PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	-	NC	21	I	MCK2	41	-	NC	61	O	A2
2	-	NC	22	-	NC	42	-	NC	62	-	NC
3	-	NC	23	-	NC	43	-	NC	63	-	NC
4	I	TST	24	-	NC	44	I	XCLR	64	-	NC
5	-	NC	25	-	NC	45	-	NC	65	-	NC
6	-	NC	26	-	NC	46	-	NC	66	-	NC
7	-	NC	27	I	SI	47	-	NC	67	O	AD
8	-	NC	28	O	SO	48	-	NC	68	O	XRAS
9	-	GND	29	I	BCK	49	-	VDD (+5V)	69	O	XWSO
10	-	NC	30	I	LRCK	50	-	NC	70	I/O	DIO
11	-	NC	31	O	XOVF	51	-	NC	71	O	XCAS
12	-	NC	32	-	NC	52	-	NC	72	-	NC
13	-	NC	33	-	NC	53	-	NC	73	-	NC
14	-	NC	34	O	A6	54	-	NC	74	I	SDT
15	-	NC	35	O	A3	55	-	NC	75	I	SCK
16	I	MCK1	36	O	A4	56	O	A1	76	I	XSLD
17	-	NC	37	O	A5	57	-	NC	77	I	SIO2
18	-	NC	38	O	A7	58	-	NC	78	I	DYSL
19	-	NC	39	-	NC	59	-	NC	79	-	NC
20	-	NC	40	-	NC	60	-	NC	80	-	NC



INPUT

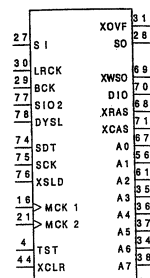
BCK :SERIAL BIT CLOCK
FOR SERIAL INPUT DATA
(SI) AND SERIAL OUTPUT
DATA (SO)
DYSL :DELAY I/O MODE SELECT
LRCK :SAMPLING FREQ. CLOCK
MCK1 :MASTER CLOCK 1
MCK2 :MASTER CLOCK 2
SCK :SERIAL CLOCK FOR SDT
SDT :SERIAL DATA FROM CPU
SI :SERIAL DATA(2's COMPLEMENT)
SIO2 :BCK CLOCK MODE SELECT
(L (GND):32 BIT CLOCK MODE,
H (+5V):24 BIT CLOCK MODE)
TST :FOR TEST
XCLR :FOR TEST
XSLD :LATCH FOR SDT(SERIAL DATA)
ACTIVE LOW

OUTPUT

A0-A7 :ADDRESS FOR EXT.DRAM
SO :SERIAL DATA(2's COMPLEMENT)
XCAS :COLUMN ADDRESS STROBE FOR
EXT.DRAM
XOVF :OVERFLOW DETECT
XRAS :ROW ADDRESS STROBE FOR
EXT.DRAM

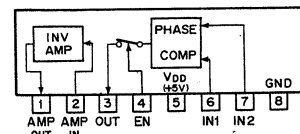
INPUT/OUTPUT

DIO :SERIAL DATA INPUT(DYSL=L) OR
DATA INPUT/OUTPUT FOR
EXT.DRAM (DYSL=H)



CX23065A (SONY)

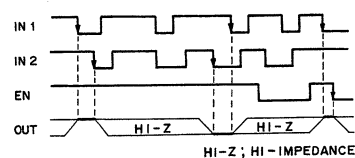
N-MOS PHASE COMPARATOR WITH INVERSION AMPLIFIER
- PRINTED SIDE VIEW -



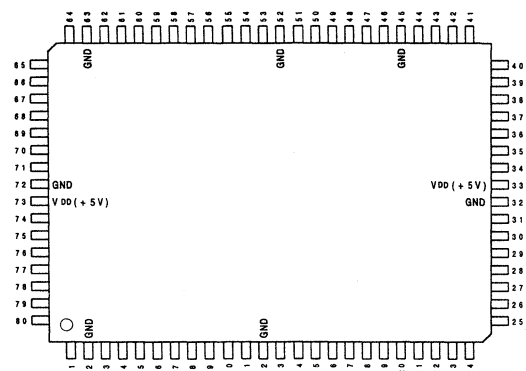
EN	OUT
1	ACTIVE
0	HIGH IMPEDANCE

1; HIGH LEVEL
0; LOW LEVEL

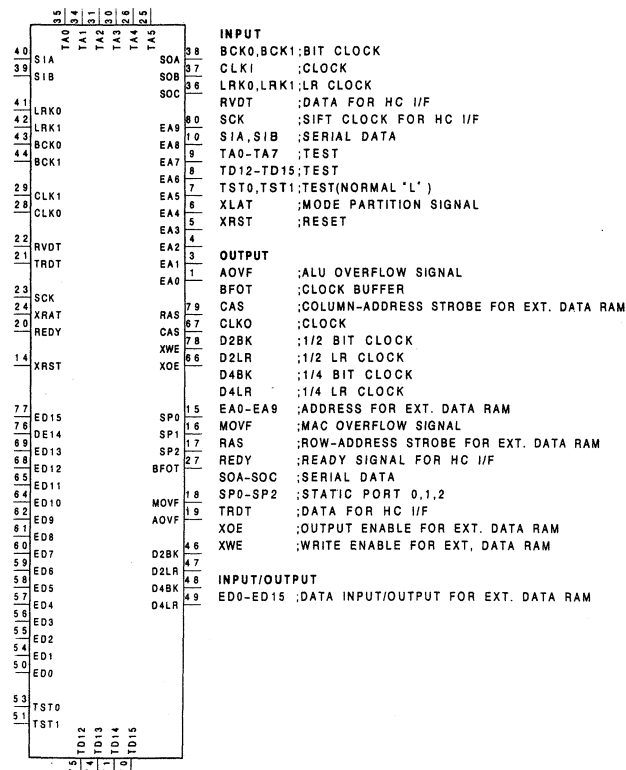
TIMING CHART



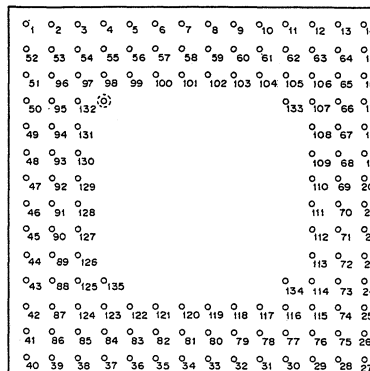
CXD2705AQ (SONY) FLAT PACKAGE
CMOS DIGITAL AUDIO SIGNAL PROCESSOR
- TOP VIEW -



PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	O	EA0	21	O	TRDT	41	I	LRK0	61	I/O	ED8
2	-	GND	22	I	RVDT	42	I	LRK1	62	I/O	ED9
3	O	EA1	23	I	SCK	43	I	BCK0	63	-	GND
4	O	EA2	24	I	XLAT	44	I	BCK1	64	I/O	ED10(GND)
5	O	EA3	25	I	TA5	45	-	GND	65	I/O	ED11(GND)
6	O	EA4	26	I	TA4	46	O	D2BK	66	O	XOE
7	O	EA5	27	O	BFOT	47	O	D2LR	67	O	CAS
8	O	EA6	28	O	CLK0	48	O	D4BK	68	I/O	ED12
9	O	EA7	29	I	CLK1	49	O	D4LR	69	I/O	ED13
10	O	EA8	30	I	TA3	50	I/O	ED0	70	I	TD15
11	I	TA7	31	I	TA2	51	I	TST1	71	I	TD14
12	-	GND	32	-	GND	52	-	GND	72	-	GND
13	I	TA6	33	-	VDD(+5V)	53	I	TST0	73	-	VDD(+5V)
14	I	XRST	34	I	TA1	54	I/O	ED1	74	I	TD13
15	O	SP0	35	I	TA0	55	I/O	ED2	75	I	TD12
16	O	SP1	36	O	SOC	56	I/O	ED3	76	I/O	ED14
17	O	SP2	37	O	SOB	57	I/O	ED4	77	I/O	ED15
18	O	MOV	38	O	SOA	58	I/O	ED5	78	O	XWE
19	O	AOVF	39	O	SIB	59	I/O	ED6	79	O	RAS
20	O	REDY	40	O	SIA	60	I/O	ED7	80	O	EA9

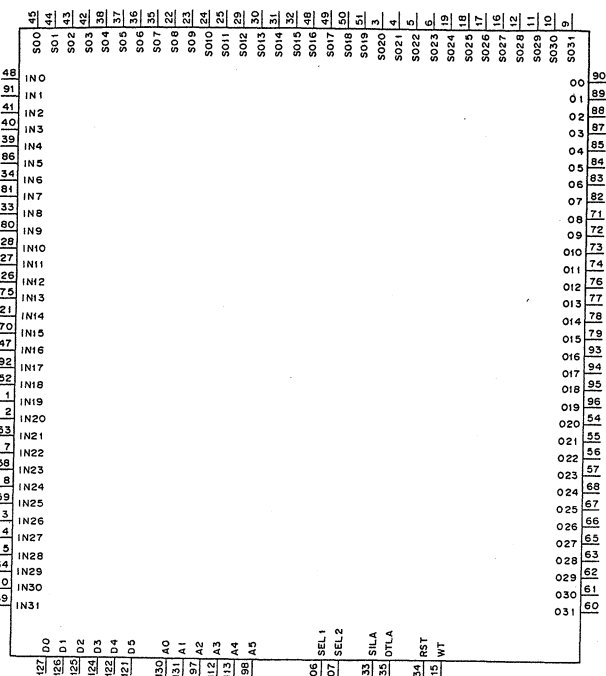


CXD8014G (SONY)
32 x 32 MATRIX SWITCH
- BOTTOM VIEW -



PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	I	IN19	28	I	IN10	55	O	O21	82	O	O7	109	-	NC
2	I	IN20	29	O	SO12	56	O	O22	83	O	O6	110	-	GND
3	O	SO20	30	O	SO13	57	O	O23	84	O	O5	111	-	VDD
4	O	SO21	31	O	SO14	58	I	IN23	85	O	O4	112	I	A3
5	O	SO22	32	O	SO15	59	I	IN25	86	I	IN5	113	I	A4
6	O	SO23	33	I	IN8	60	O	O31	87	O	O3	114	-	GND
7	I	IN24	34	I	IN6	61	O	O30	88	O	O2	115	I	WT
8	I	IN24	35	O	SO7	62	O	O29	89	O	O1	116	-	NC
9	O	SO31	36	O	SO6	63	O	O28	90	O	O0	117	-	NC
10	O	SO30	37	O	SO5	64	I	IN29	91	I	IN1	118	-	NC
11	O	SO29	38	O	SO4	65	O	O27	92	I	IN7	119	-	GND
12	O	SO28	39	I	IN4	66	O	O26	93	O	O16	120	-	VDD
13	I	IN26	40	I	IN3	67	O	O25	94	O	O17	121	I	D5
14	I	IN27	41	I	IN2	68	O	O24	95	O	O18	122	I	D4
15	I	IN28	42	O	SO3	69	I	IN31	96	O	O19	123	-	GND
16	O	SO27	43	O	SO2	70	I	IN15	97	I	A2	124	I	D3
17	O	SO26	44	O	SO1	71	O	O8	98	I	A5	125	I	D2
18	O	SO25	45	O	SO0	72	O	O9	99	-	NC	126	I	D1
19	O	SO24	46	I	IN0	73	O	O10	100	-	NC	127	I	D0
20	I	IN30	47	I	IN16	74	O	O11	101	-	GND	128	-	GND
21	I	IN14	48	O	SO16	75	I	IN13	102	-	VDD	129	-	VDD
22	O	SO8	49	O	SO17	76	O	O12	103	-	NC	130	I	A0
23	O	SO9	50	O	SO18	77	O	O13	104	-	NC	131	I	A1
24	O	SO10	51	O	SO19	78	O	O14	105	-	GND	132	-	GND
25	O	SO11	52	I	IN18	79	O	O15	106	I	SEL1	133	I	SILA
26	I	IN12	53	I	IN21	80	I	IN9	107	I	SEL2	134	I	RST
27	I	IN11	54	O	O20	81	I	IN7	108	-	NC	135	I	DTLA

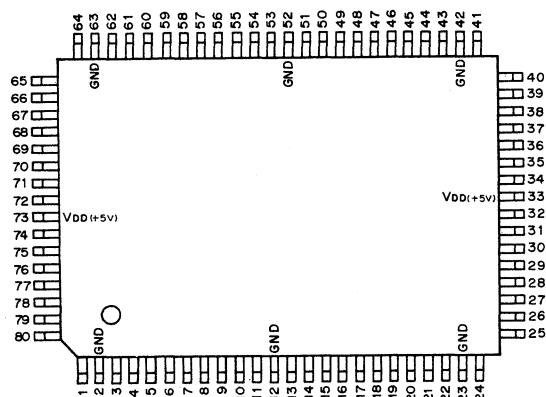
A0-A5 : ADDRESS BUS INPUTS
D0-D5 : DATA BUS INPUTS
DTLA : DATA LATCH INPUT
IN0-IN31 : INPUT DATA INPUTS
O0-O31 : OUTPUT DATA OUTPUTS
RST : RESET INPUT
SEL1 : SYNC OR NOT SYNC SELECT OF O0-O31
SEL2 : COMPLEMENT OUTPUT DATA OR OUTPUT PIN CONTROL SELECT OF SO0-SO31
(1 : COMPLEMENT OUTPUT DATA, 0 : OUTPUT PIN CONTROL)
SILA : SIGNAL LATCH INPUT
SO0-SO31 : COMPLEMENT OUTPUT DATA/OUTPUT PIN CONTROL OUTPUTS
WT : WRITE INPUT



CXD8025Q (SONY) FLAT PACKAGE

32-BIT SERIAL-PARALLEL/PARALLEL-SERIAL CONVERTER

- TOP VIEW -



PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	O	SOA	21	I/O	SDLC	41	I/O	SDRD	61	I	SIB
2	-	GND	22	I/O	SDRC	42	-	GND	62	O	SOB
3	I	SIA	23	-	GND	43	I/O	SDLD	63	-	GND
4	I/O	Q0	24	I	MODA	44	I/O	Q31	64	I	CRCD
5	I/O	Q1	25	I	MODB	45	I/O	Q30	65	I	POEB
6	I/O	Q2	26	I	THRC	46	I/O	Q29	66	I	PIEB
7	I/O	Q3	27	I	DFFC	47	I/O	Q28	67	I	PSLB
8	I/O	Q4	28	I	DIRC	48	I/O	Q27	68	I	CRCP
9	I/O	Q5	29	I	LDC	49	I/O	Q26	69	I	CRCC
10	I/O	Q6	30	I	RCKC	50	I/O	Q25	70	I	RCKB
11	I/O	Q7	31	I	SCKC	51	I/O	Q24	71	I	SCKB
12	-	GND	32	I	SCLC	52	-	GND	72	I	SCLB
13	I/O	Q8	33	-	VDD (+5V)	53	I/O	Q23	73	-	VDD (+5V)
14	I/O	Q9	34	I	SCLD	54	I/O	Q22	74	I	SCLA
15	I/O	Q10	35	I	SCKD	55	I/O	Q21	75	I	SCKA
16	I/O	Q11	36	I	RCKD	56	I/O	Q20	76	I	RCKA
17	I/O	Q12	37	I	LDD	57	I/O	Q19	77	I	PSLA
18	I/O	Q13	38	I	DIRD	58	I/O	Q18	78	I	PIEA
19	I/O	Q14	39	I	DFFD	59	I/O	Q17	79	I	POEA
20	I/O	Q15	40	I	THRD	60	I/O	Q16	80	O	CRCE

INPUT

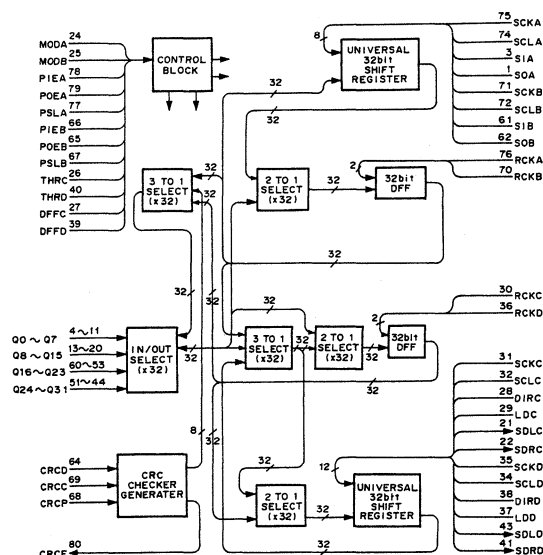
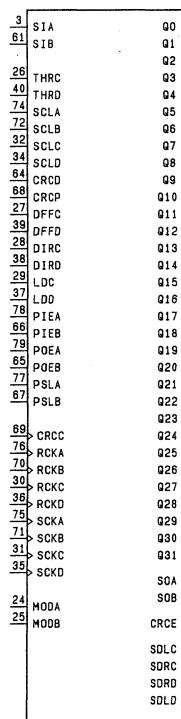
- CRCC : CLOCK INPUT FOR CRC CHECKER/GENERATOR
- CRCD : DATA INPUT FOR CRC CHECKER/GENERATOR
- CRCP : PRESET INPUT FOR CRC CHECKER/GENERATOR
- DFFC : DFF MODE SET FOR C BLOCK (MODE=0)
- DFFD : DFF MODE SET FOR D BLOCK (MODE=0)
- DIRC : SHIFT DIRECTION SET FOR C BLOCK SHIFT REGISTER
- DIRD : SHIFT DIRECTION SET FOR D BLOCK SHIFT REGISTER
- LDC : PARALLEL LOAD CONTROL FOR C BLOCK SHIFT REGISTER
- LDD : PARALLEL LOAD CONTROL FOR D BLOCK SHIFT REGISTER
- MODA, MODB : MODE (0, 1, 2, 3) SET
- PIEA : PARALLEL IN ENABLE FOR AC BLOCK
- PIEB : PARALLEL IN ENABLE FOR BD BLOCK
- POEA : PARALLEL OUT ENABLE FOR AC BLOCK
- POEB : PARALLEL OUT ENABLE FOR BD BLOCK
- PSLA : PARALLEL DATA SELECT FOR AC BLOCK
- PSLB : PARALLEL DATA SELECT FOR BD BLOCK
- RCKA : CLOCK FOR A BLOCK DFF
- RCKB : CLOCK FOR B BLOCK DFF
- RCKC : CLOCK FOR C BLOCK DFF
- RCKD : CLOCK FOR D BLOCK DFF
- SCKA : CLOCK FOR A BLOCK SHIFT REGISTER
- SCKB : CLOCK FOR B BLOCK SHIFT REGISTER
- SCKC : CLOCK FOR C BLOCK SHIFT REGISTER
- SCKD : CLOCK FOR D BLOCK SHIFT REGISTER
- SCLA : ASYNCHRONOUS CLEAR FOR A BLOCK SHIFT REGISTER
- SCLB : ASYNCHRONOUS CLEAR FOR B BLOCK SHIFT REGISTER
- SCLC : ASYNCHRONOUS CLEAR FOR C BLOCK SHIFT REGISTER
- SCLD : ASYNCHRONOUS CLEAR FOR D BLOCK SHIFT REGISTER
- SIA : SERIAL DATA OUTPUT FOR A BLOCK SHIFT REGISTER
- SIB : SERIAL DATA OUTPUT FOR B BLOCK SHIFT REGISTER
- THRC : THOROUGH SET FOR C BLOCK DFF (L: THOROUGH)
- THRD : THOROUGH SET FOR D BLOCK DFF (L: THOROUGH)

OUTPUT

- CRCE : CHECK OUTPUT FOR CRC CHECKER/GENERATOR
- SOA : SERIAL DATA OUTPUT FOR A BLOCK SHIFT REGISTER
- SOB : SERIAL DATA OUTPUT FOR B BLOCK SHIFT REGISTER

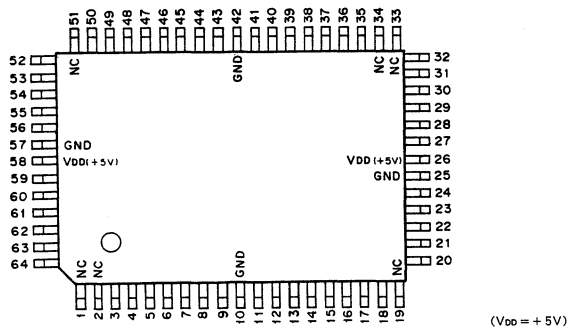
INPUT/OUTPUT

- Q0 - Q7 : PARALLEL DATA FOR AC BLOCK
- Q8 - Q15 : PARALLEL DATA FOR AC BLOCK (MODE 0, 2, 3)
- Q16 - Q23 : PARALLEL DATA FOR BD BLOCK (MODE 1)
- Q24 - Q31 : PARALLEL DATA FOR BD BLOCK
- SDLC : SERIAL DATA (L SIDE) FOR C BLOCK SHIFT REGISTER
- SDRC : SERIAL DATA (R SIDE) FOR C BLOCK SHIFT REGISTER
- SDLD : SERIAL DATA (L SIDE) FOR D BLOCK SHIFT REGISTER
- SDRD : SERIAL DATA (R SIDE) FOR D BLOCK SHIFT REGISTER

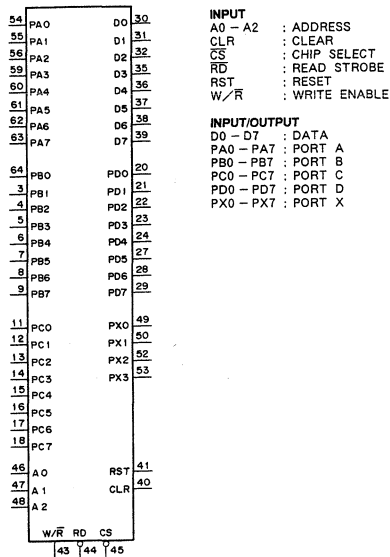


CXD8125Q (SONY)

C-MOS I/O PORT EXPANDER
- TOP VIEW -



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	-	NC	17	I/O	PC6	33	-	NC	49	I/O	PX0
2	-	NC	18	I/O	PC7	34	-	NC	50	I/O	PX1
3	I/O	PB1	19	-	NC	35	I/O	D3	51	-	NC
4	I/O	PB2	20	I/O	PD0	36	I/O	D4	52	I/O	PX2
5	I/O	PB3	21	I/O	PD1	37	I/O	D5	53	I/O	PX3
6	I/O	PB4	22	I/O	PD2	38	I/O	D6	54	I/O	PA0
7	I/O	PB5	23	I/O	PD3	39	I/O	D7	55	I/O	PA1
8	I/O	PB6	24	I/O	PD4	40	I	CLR	56	I/O	PA2
9	I/O	PB7	25	-	GND	41	I	RST	57	-	GND
10	-	GND	26	-	VDD	42	-	GND	58	-	VDD
11	I/O	PC0	27	I/O	PD5	43	I	WR	59	I/O	PA3
12	I/O	PC1	28	I/O	PD6	44	I	RD	60	I/O	PA4
13	I/O	PC2	29	I/O	PD7	45	I	CS	61	I/O	PA5
14	I/O	PC3	30	I/O	D0	46	I/O	A0	62	I/O	PA6
15	I/O	PC4	31	I/O	D1	47	I/O	A1	63	I/O	PA7
16	I/O	PC5	32	I/O	D2	48	I/O	A2	64	I/O	PB0

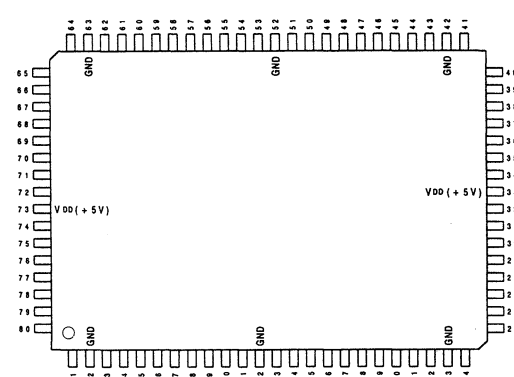


INPUT
A0 - A2 : ADDRESS
CLR : CLEAR
CS : CHIP SELECT
RD : READ STROBE
RST : RESET
W/R : WRITE ENABLE

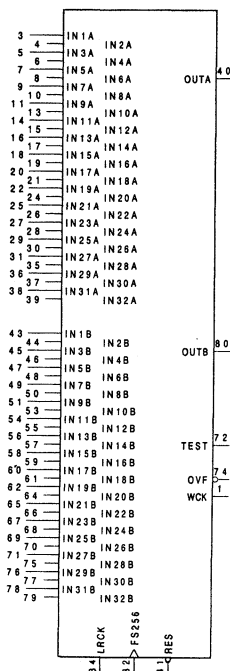
INPUT/OUTPUT
D0 - D7 : DATA
PA0 - PA7 : PORT A
PB0 - PB7 : PORT B
PC0 - PC7 : PORT C
PD0 - PD7 : PORT D
PX0 - PX7 : PORT X

CXDB307Q (SONY) FLAT PACKAGE

DUAL 32INPUTS 32BITS MSB FIRST SERIAL ADDER
- TOP VIEW -



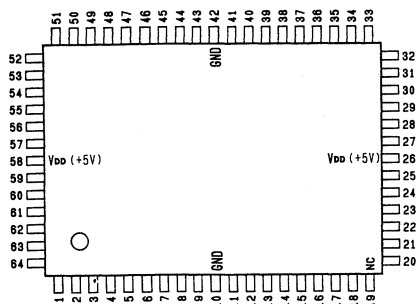
PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	O	WCK	21	I	IN18A	41	I	RES	61	I	IN18B
2	-	GND	22	I	IN19A	42	-	GND	62	I	IN19B
3	I	IN1A	23	-	GND	43	I	IN1B	63	-	GND
4	I	IN2A	24	I	IN20A	44	I	IN2B	64	I	IN20B
5	I	IN3A	25	I	IN21A	45	I	IN3B	65	I	IN21B
6	I	IN4A	26	I	IN22A	46	I	IN4B	66	I	IN22B
7	I	IN5A	27	I	IN23A	47	I	IN5B	67	I	IN23B
8	I	IN6A	28	I	IN24A	48	I	IN6B	68	I	IN24B
9	I	IN7A	29	I	IN25A	49	I	IN7B	69	I	IN25B
10	I	IN8A	30	I	IN26A	50	I	IN8B	70	I	IN26B
11	I	IN9A	31	I	IN27A	51	I	IN9B	71	I	IN27B
12	-	GND	32	I	FS256	52	-	GND	72	I	TEST
13	I	IN10A	33	-	VDD (+5V)	53	I	IN10B	73	-	VDD (+5V)
14	I	IN11A	34	I	LRCK	54	I	IN11B	74	O	OVF
15	I	IN12A	35	I	IN28A	55	I	IN12B	75	I	IN28B
16	I	IN13A	36	I	IN29A	56	I	IN13B	76	I	IN29B
17	I	IN14A	37	I	IN30A	57	I	IN14B	77	I	IN30B
18	I	IN15A	38	I	IN31A	58	I	IN15B	78	I	IN31B
19	I	IN16A	39	I	IN32A	59	I	IN16B	79	I	IN32B
20	I	IN17A	40	O	OUTA	60	I	IN17B	80	O	OUTB



INPUT
FS256 : MASTER CLOCK (256FS)
IN1A-IN32A : A CH DATA INPUTS (1 TO 32)
IN1B-IN32B : B CH DATA INPUTS (1 TO 32)
LRCK : PHASE REGULATION SIGNAL
TEST : TEST
RES : RESET

OUTPUT
OUTA : A CH SERIAL ADDER DATA
OUTB : B CH SERIAL ADDER DATA
WCK : SIFT CLOCK FOR OVF
OVF : OVERFLOW MONITOR (NEGATIVE PULSE)

CXD8277Q (TI) FLAT PACKAGE

CMOS DIGITAL AUDIO (AES/EBU) ENCODER
- TOP VIEW -

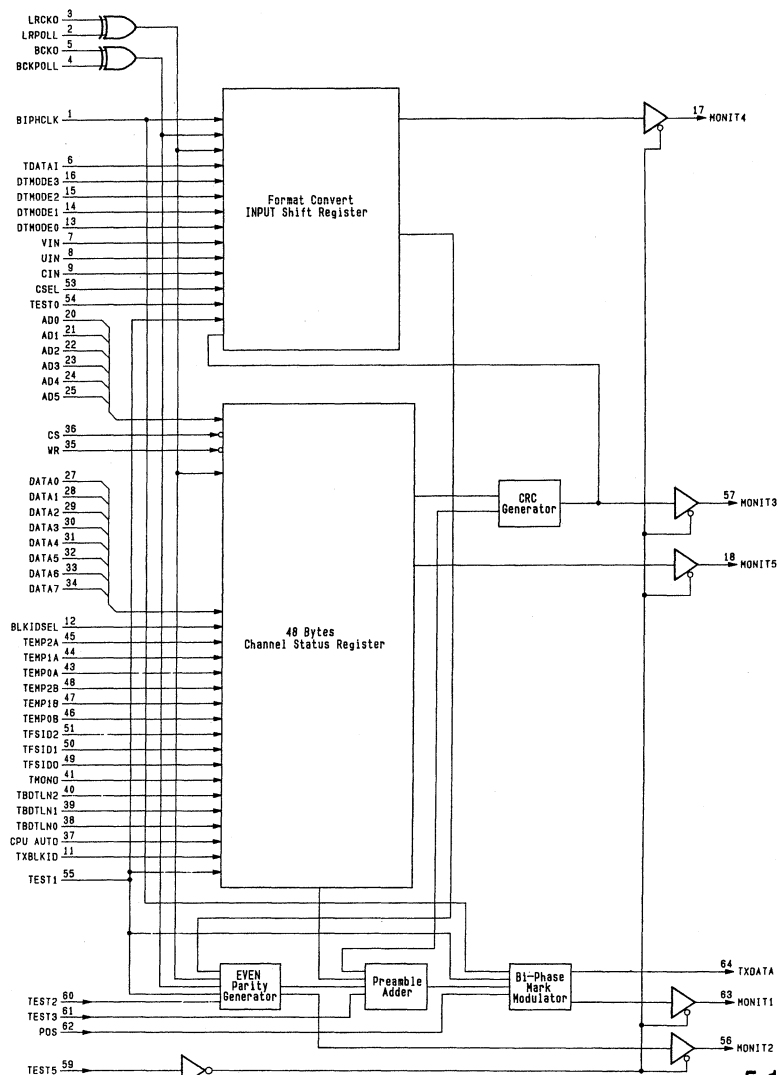
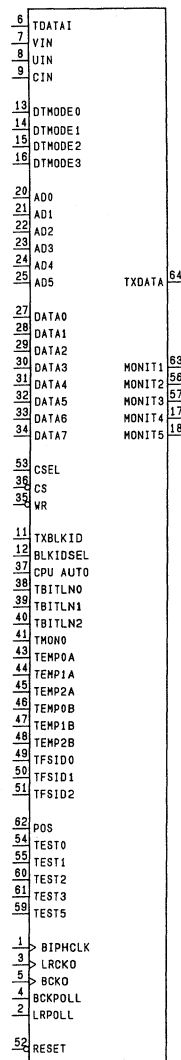
(VDD = +5V)															
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.
1	I	BIPHCLK	17	O	MONIT4	33	I	DATA6	49	I	TFSID0	63	O	MONIT5	18
2	I	LRPOLL	18	O	MONIT5	34	I	DATA7	50	I	TFSID1	64	O	TXDATA	19
3	I	LRCKO	19	-	NC	35	I	WR	51	I	TFSID2				
4	I	BCKPOLL	20	I	AD0	36	I	CS	52	I	RESET				
5	I	BCKO	21	I	AD1	37	I	CPU AUTO	53	I	CSEL				
6	I	TDATAI	22	I	AD2	38	I	TBITLN0	54	I	TEST0				
7	I	VIIN	23	I	AD3	39	I	TBITLN1	55	I	TEST1				
8	I	UIIN	24	I	AD4	40	I	TBITLN2	56	O	MONIT2				
9	I	CIN	25	I	AD5	41	I	TMONO	57	O	MONIT3				
10	-	GND	26	-	VDD	42	-	GND	58	-	VDD				
11	I	TXBLKID	27	I	DATA0	43	I	TEMP0A	59	I	TEST5				
12	I	BLKIDSEL	28	I	DATA1	44	I	TEMP1A	60	I	TEST2				
13	I	DTMODE0	29	I	DATA2	45	I	TEMP2A	61	I	TEST3				
14	I	DTMODE1	30	I	DATA3	46	I	TEMP0B	62	I	POS				
15	I	DTMODE2	31	I	DATA4	47	I	TEMP1B	63	O	MONIT1				
16	I	DTMODE3	32	I	DATA5	48	I	TEMP2B	64	O	TXDATA				

INPUT

ADO - AD5 : ADDRESS BUS FOR WRITING CHANNEL STATUS DATA FROM EXTERNAL CPU TO CHANNEL STATUS REGISTER
 BCKO : BIT CLOCK (64Fs, 32Fs) FOR TDATAI
 BCKPOLL : POLARITY SWITCHING OF BCKO (PIN No.5)
 BIPHCLK : 128Fs FOR DO OUTPUT
 BLKIDSEL : BLOCK ID EXTERNAL/INTERNAL SELECTION ("H": INTERNAL MODE)
 CIN : SERIAL INPUT OF EACH SUB FRAME CHANNEL STATUS
 CPU AUTO : SWITCHING SIGNAL OF CPU AND AUTO MODE ("H": AUTO MODE)
 CS : CHIP SELECT SIGNAL FROM EXTERNAL CPU TO CHANNEL STATUS REGISTER ("L": SELECT, "H": UNSELECT)
 CSEL : SELECTS THE USE OF CIN (EXTERNAL INPUT) OR INTERNAL REGISTER FOR CHANNEL STATUS DATA ("H": INTERNAL REGISTER)
 DATA0 - DATA7 : DATA BUS FOR WRITING CHANNEL STATUS DATA FROM EXTERNAL CPU TO CHANNEL STATUS REGISTER
 DTMODE0 - 3 : DECISION OF DIGITAL AUDIO SIGNAL INPUT FORMAT
 LRCKO : L/R CLOCK FOR DIGITAL AUDIO SIGNAL OUTPUT
 LRPOLL : POLARITY SWITCHING OF LRCKO (PIN No.3)
 POS : FORCIBLY SETS PREAMBLE TO BE POSITIVE POLARITY ("H": ACTIVE)
 RESET : SETS TXDATA OUTPUT (AUDIO DATA, AND VALIDITY BIT, USER DATA AND CHANNEL STATUS DATA) TO BE "0". ("L": ACTIVE)
 TBITLN0 - 2 : SUBFRAME A/B CHANNEL STATUS SETTING (DATA BIT LENGTH)
 TDATAI : DIGITAL AUDIO SIGNAL INPUT
 TEMPOA - 2A : SUBFRAME A EMP INFORMATION
 TEMP0B - 2B : SUBFRAME B EMP INFORMATION
 TEST0 : TEST RESET (CONNECTION TO GND)
 TEST1 : TEST RESET (CONNECTION TO GND)
 TEST2 : TEST
 TEST3 : TEST
 TEST5 : CONTROL SIGNAL OF MONIT1 TO 5
 TFSID0 - 2 : SUBFRAME A/B Fs INFORMATION
 TMONO : SUBFRAME A/B CHANNEL STATUS SETTING (MONOPHONIC/TWO CHANNEL MODE)
 TXBLKID : EXTERNAL BLOCK ID SIGNAL
 UNI : SERIAL INPUT OF EACH SUB FRAME USER DATA
 VIN : SERIAL INPUT OF EACH SUB FRAME VALIDITY BIT
 WR : CHANNEL STATUS DATA WRITING FROM EXTERNAL CPU TO CHANNEL STATUS REGISTER

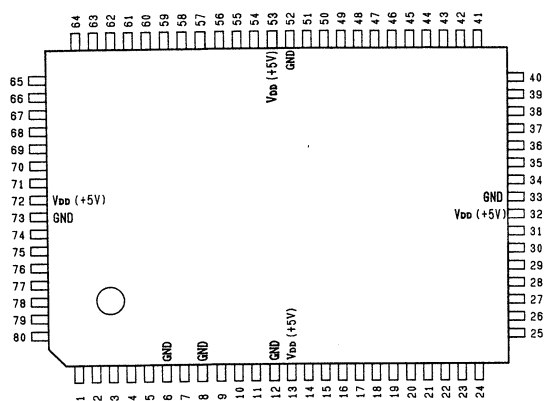
OUTPUT

MONIT1 - 5 : MONITOR
 TXDATA : AES/EBU FORMAT DIGITAL AUDIO OUTPUT



CXD8278AQ (SONY)

C-MOS DIGITAL AUDIO SIGNAL (AES/EBU) DECODER
- TOP VIEW -



Pin No.	I/O	SIGNAL	Pin No.	I/O	SIGNAL	Pin No.	I/O	SIGNAL	Pin No.	I/O	SIGNAL
1	0	NOSGNL	21	I/O	FM12 TS4	41	I/O	RD LN2	61	I	BCKPOL
2	0	UNLOCK	22	I/O	FIXDPLLZ	42	I	CS	62	0	RXLRL
3	0	SYNCERR	23	I/O	F128 TS2	43	0	INT	63	I	LRCKI
4	I	RXDATA	24	I	TST3	44	I	CPU AUTO	64	I	LRPOL
5	I	CLKIN	25	I/O	ADD CON	45	I	TST1	65	0	RXBLKID
6	-	GND	26	I/O	AD1 NOA	46	0	SLIP0	66	0	CSAVLDT
7	0	CLKOUT	27	I/O	AD2 FS0	47	0	SLIP1	67	0	CSBVLDT
8	-	GND	28	I/O	AD3 FS1	48	I	DTMODE0	68	0	CRCA
9	0	FMASTER	29	I/O	AD4 FS2	49	I	DTMODE1	69	0	CRCB
10	I	PLLSEL	30	I/O	AD5 E0A	50	I	DTMODE2	70	I	MUTE0
11	0	PLLVAR	31	0	D0 E1A	51	I	DTMODE3	71	I	MUTE1
12	-	GND	32	-	VDD	52	-	GND	72	-	VDD
13	-	VDD	33	-	GND	53	-	VDD	73	-	VDD
14	0	PLLREF	34	0	D1 E2A	54	0	COUT	74	I	MUTEON
15	I/O	LOCKPH0	35	0	D2 E0B	55	0	UOUT	75	0	VE3A
16	I/O	LOCKPH1	36	0	D3 E1B	56	0	VOUT	76	0	VE3B
17	I/O	LOCKPH2	37	0	D4 E2B	57	0	ERROR	77	0	VE1A
18	I/O	LOCKPH3	38	0	D5 MON	58	0	RDATA	78	0	VE1B
19	I/O	LOCKPH4	39	0	D6 LNO	59	0	RXBCK	79	0	PE1
20	I/O	LOCKPH5	40	0	D7 LNI	60	I	BCKI	80	0	PE3

48	DTMODE0	CONT	54	RD LN2
49	DTMODE1	VOUT	55	CS
50	DTMODE2	UOUT	56	CPU AUTO
51	DTMODE3	RDATA	57	
74	MUTEON		58	
70	MUTE0	SLIP0	46	
71	MUTE1	SLIP1	47	
63	LRCKI	NOSGNL	1	
60	BCKI	UNLOCK	2	
64	LRPOL		79	
61	BCKPOL	PE1	80	
21	FM12 TS4	VE1A	77	
23	F128 TS2	VE1B	78	
9	FMASTER	VE3A	75	
5	CLKIN	VE3B	76	
7	CLKOUT	SYNCERR	3	
4	RXDATA	CRCA	68	
10	PLLSEL	CRCB	69	
59	RXBCK	CSAVLDT	66	
11	PLLVAR	CSBVLDT	67	
14	PLLREF		62	
22	FIXDPLLZ	RXLRL	65	
15	LOCKPH0	RXBLKID	63	
16	LOCKPH1	D0 E1A	31	
17	LOCKPH2	D1 E2A	34	
18	LOCKPH3	D2 E0B	35	
19	LOCKPH4	D3 E1B	36	
20	LOCKPH5	D4 E2B	37	
		D5 MON	38	
25	ADD CON	D6 LNO	39	
26	AD1 NOA	D7 LNI	40	
27	AD2 FS0			
28	AD3 FS1	INT	43	
29	AD4 FS2			
30	AD5 E0A			
41	RD LN2			
42	CS			
44	CPU AUTO			

INPUT

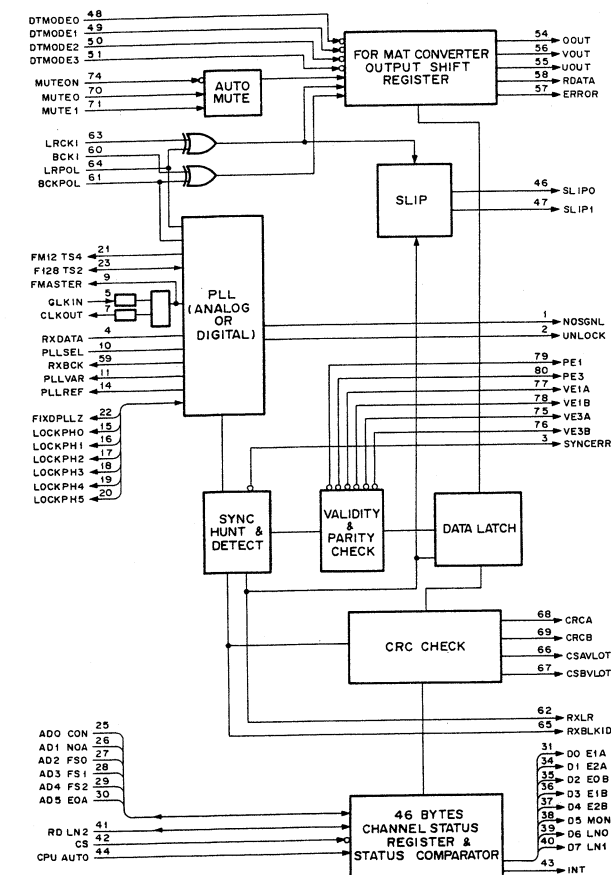
BCKI : REFERENCE BIT CLOCK (64/32Fs)
BCKPOL : POLARITY SWITCHING SIGNAL OF BCKI (PIN NO.60) AND RXBCK (PIN NO.59)
CLKIN : MASTER CLOCK OSCILLATOR INPUT AT DIGITAL PLL
CPU AUTO : SELECTS CPU INTERFACE OR AUTO INTERFACE.
("H" : AUTO INTERFACE, "L" : CPU INTERFACE)
CS : CHIP SELECT SIGNAL (INPUT FOR CHANNEL STATUS REGISTER) ("L" : SELECT)
DTMODE0-3 : OUTPUT FORMAT SPECIFYING CODE OF RDATA SIGNAL (PIN NO.58)
LRCKI : REFERENCE L/R CLOCK INPUT (Fs PERIOD)
LRPOL : POLARITY SWITCHING SIGNAL OF LRCKI (PIN NO.63) AND RXLR (PIN NO.62)
MUTEON : RDATA (PIN NO.58) MUTE PERIOD SETTING CODE
MUTE0,1 : "L" : AUDIO OUTPUT BE FORCIBLY MUTE ON FOR A CERTAIN PERIOD
PLLSEL : "L" : ANALOG PLL, "H" : DIGITAL PLL
RXDATA : AES/EBU INPUT
TST1 : TEST INPUT (NORMALLY FIXED TO "L")
TST3 : TEST PIN (FIXED TO "L")

OUTPUT

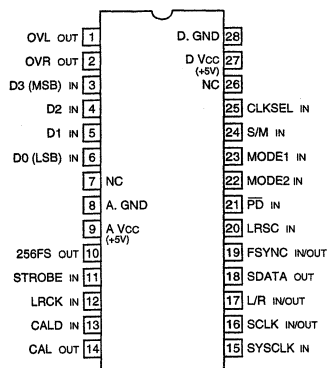
CLKOUT : MASTER CLOCK OSCILLATOR OUTPUT AT DIGITAL PLL
COUT : C BIT STATUS SIGNAL EXTRACTED FROM AES/EBU INPUT SIGNAL
CRCA, CRCB : OUTPUTS THE RESULT OF CHANNEL STATUS CRC CHECK OF SUBFRAME A AND B AT ERROR OCCURRING
CSAVLDT, CSBVLDT : SUBFRAME A AND B CHANNEL STATUS
D0 E1A : SUBFRAME A CHANNEL STATUS (CPU AUTO : "H")
D1 E2A : SUBFRAME A CHANNEL STATUS (CPU AUTO : "H")
D2 E0B : SUBFRAME B CHANNEL STATUS (CPU AUTO : "H")
D3 E1B : SUBFRAME B CHANNEL STATUS (CPU AUTO : "H")
D4 E2B : SUBFRAME B CHANNEL STATUS (CPU AUTO : "H")
D5 MON : SUBFRAME A CHANNEL STATUS (CPU AUTO : "H")
D6 LNO : SUBFRAME A/B CHANNEL STATUS (CPU AUTO : "H")
D7 LNI : SUBFRAME A/B CHANNEL STATUS (CPU AUTO : "H")
ERROR : ERROR INFORMATION OUTPUT (PARITY, SLIP ERROR, etc.) IN SERIAL.
FMASTER : MASTER CLOCK OUTPUT
INT : INTERRUPTION SIGNAL OUTPUT
NOSGNL : NO SIGNAL DETECTION
PE1 : PARITY ERROR DETECTION OUTPUT (1 SUBFRAM)
PE3 : PARITY ERROR DETECTION OUTPUT (3 SUBFRAMS CONTINUOUSLY)
PLLREF : RXDATA SYNC DETECTION
PLLVAR : ANALOG PLL MASTER CLOCK 1/256 (2Fs) SIGNAL
RDATA : AES/EBU INPUT SIGNAL DEMODULATED SIGNAL OUTPUT
RXBCK : BIT CLOCK OUTPUT GENERATED FROM AES/EBU INPUT SIGNAL
RXBLKID : BLOCK ID SIGNAL
RXLRL : REFERENCE L/R CLOCK OUTPUT (Fs PERIOD)
SLIP0, SLIP1 : DATA SLIP DETECTION
SYNCERR : SYNC ERROR DETECTION OUTPUT.
UNLOCK : DIGITAL PLL UNLOCK DETECTION OUTPUT.
UOUT : U BIT (USER DATA BIT) STATUS SIGNAL EXTRACTED FROM RXDATA SIGNAL
VE1A : VALIDITY ERROR DETECTION OUTPUT (ONE SUBFRAM A).
VE1B : VALIDITY ERROR DETECTION OUTPUT (ONE SUBFRAM B).
VE3A : VALIDITY ERROR DETECTION OUTPUT (3FRAMS CONTINUOUSLY FOR SUBFRAM A)
VE3B : VALIDITY ERROR DETECTION OUTPUT (3FRAMS CONTINUOUSLY FOR SUBFRAM B)
VOUT : V BIT (VALIDITY BIT) STATUS SIGNAL EXTRACTED FROM RXDATA SIGNAL

INPUT/OUTPUT

ADD CON : CHANNEL STATUS (CPU AUTO : "H")
AD1 NOA : CHANNEL STATUS (CPU AUTO : "H")
AD2 FS0 : CHANNEL STATUS (CPU AUTO : "H")
AD3 FS1 : CHANNEL STATUS (CPU AUTO : "H")
AD4 FS2 : CHANNEL STATUS (CPU AUTO : "H")
AD5 E0A : SUBFRAME A CHANNEL STATUS (CPU AUTO : "H")
F128 TS2 : OUTPUTS 128Fs OF DIGITAL PLL.
FIXDPLLZ : PLLSEL : "H".
DIGITAL PLL OPERATION MODE SELECTION SIGNAL
("N" : NARROW MODE, "H" : WIDE MODE)
FM12 TS4 : 1/2 MCK OUTPUT
LOCKPH0-5 : PLLSEL : "H", FIXDPLLZ : "H"
OPERATION PERIOD SETTING DATA INPUT AT NARROW MODE
(DIGITAL PLL MODE)
RD LN2 : SUBFRAME A/B CHANNEL STATUS (CPU AUTO : "H")



DF1760P (BURR-BROWN)
20-BIT A/D CONVERSION SYSTEM
- TOP VIEW -



INPUT

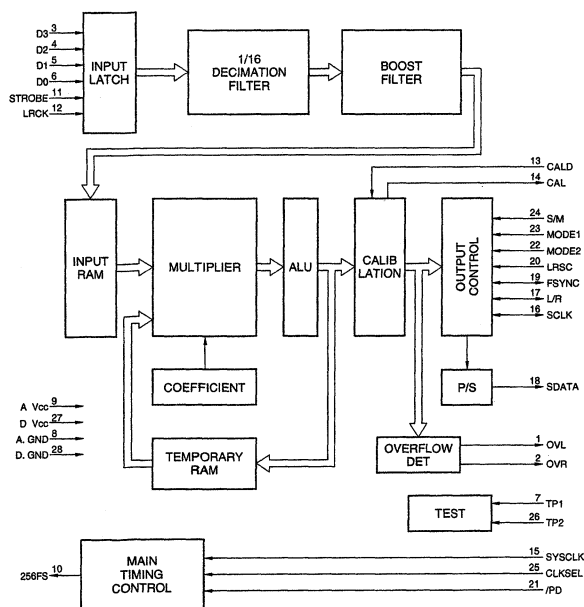
CALD : CALIBRATION (L: EFFECTIVE)
CLKSEL : SYSTEM CLOCK SELECT
D0 - D3 : DATA INPUTS
LRCK : L/R CLOCK
LRSC : L/R SELECT (H: Lch)
MODE1,2 : OUTPUT DATA FORMAT SELECT
STROBE : DATA STROBE
SYSCLK : SYSTEM CLOCK
S/M : SLAVE/MASTER MODE SELECT (H: SLAVE)
PD : POWER DOWN MODE (L: POWER DOWN)

OUTPUT

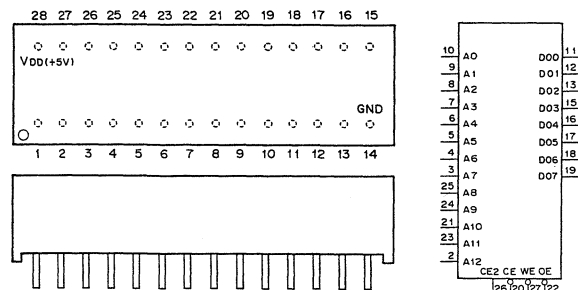
CAL : CALIBRATION (H: EXECUTION)
OVL : Lch OVERFLOW DETECTION (H: DETECTION)
OVR : Rch OVERFLOW DETECTION (H: DETECTION)
SDATA : SERIAL DATA
256FS : SYSTEM CLOCK

INPUT/OUTPUT

FSYNC : FRAME SYNCHRO CLOCK
L/R : L/R CHANNEL DISCRIMINATE CLOCK
SCLK : DATA CLOCK



DS1643-150 (DALLAS)
C-MOS 64K (8192 x 8)-BIT NONVOLATILE TIMEKEEPING S-RAM
WITH REAL TIME CLOCK
- TOP/SIDE VIEW -



PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	—	NC	15	I/O	DO3
2	I	A12	16	I/O	DO4
3	I	A7	17	I/O	DO5
4	I	A6	18	I/O	DO6
5	I	A5	19	I/O	DO7
6	I	A4	20	I	CE
7	I	A3	21	I	A10
8	I	A2	22	I	OE
9	I	A1	23	I	A11
10	I	A0	24	I	A9
11	I/O	DO0	25	I	A8
12	I/O	DO1	26	I	CE2
13	I/O	DO2	27	I	WE
14	—	GND	28	—	VDD (+5V)

INPUT
A0 - A12 : ADDRESS INPUTS
CE, CE2 : CHIP ENABLES
OE : OUTPUT ENABLE
WE : WRITE ENABLE

INPUT/OUTPUT
DO0 - DO7 : DATA INPUT/OUTPUT

TRUTH TABLE DS1643 TABLE1

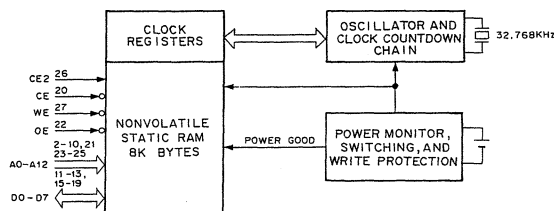
VDD	CE	CE2	OE	WE	MODE	DO	POWER
+5 V ± 10%	1	X	X	X	DESELECT	HIGH Z	STADBY
	X	0	X	X	DESELECT	HIGH Z	STADBY
	0	1	X	0	WRITE	DATA IN	ACTIVE
	0	1	0	1	READ	DATA OUT	ACTIVE
< +4.5 V, > VBAT	X	X	X	X	DESELECT	HIGH Z	C-MOS STANDBY
	X	X	X	X	DESELECT	HIGH Z	DATA RETENTION MODE

0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE
HIGH Z : HIGH IMPEDANCE

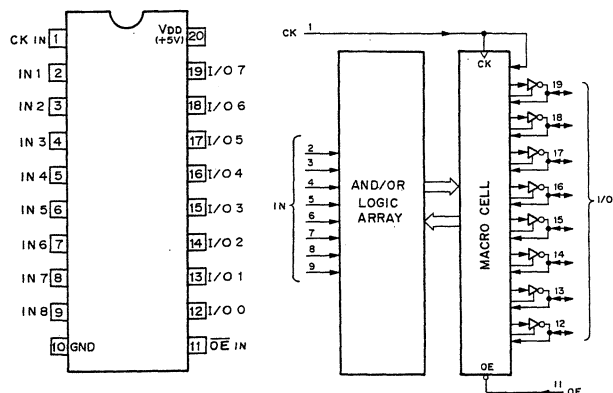
DS1643 REGISTER MAP-BANK1 TABLE2

ADDRESS	DATA								FUNCTION
	B7	B6	B5	B4	B3	B2	B1	B0	
1FFF	—	—	—	—	—	—	—	—	YEAR 00 - 99
1FFE	X	X	X	—	—	—	—	—	MONTH 01 - 12
1FFD	X	X	—	—	—	—	—	—	DATE 01 - 31
1FFC	X	FT	X	X	X	—	—	—	DAY 01 - 07
1FFB	X	X	—	—	—	—	—	—	HOUR 00 - 23
1FFA	X	—	—	—	—	—	—	—	MINUTES 00 - 59
1FF9	OSC	—	—	—	—	—	—	—	SECONDS 00 - 59
1FF8	W	R	—	—	—	—	—	—	CONTROL A

OSC : STOP BIT
W : WRITE BIT
R : READ BIT
X : UNUSED
FT : FREQUENCY TEST

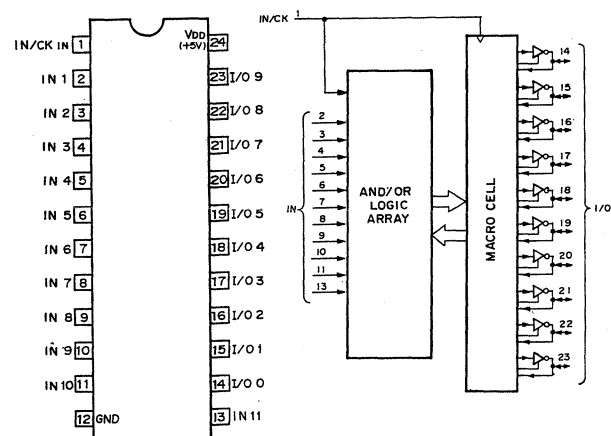


GAL16V8B-10LP (LATTICE)
GAL16V8B-25LP (LATTICE)
C-MOS ELECTRICALLY ERASABLE PROGRAMMABLE LOGIC DEVICE
- TOP VIEW -



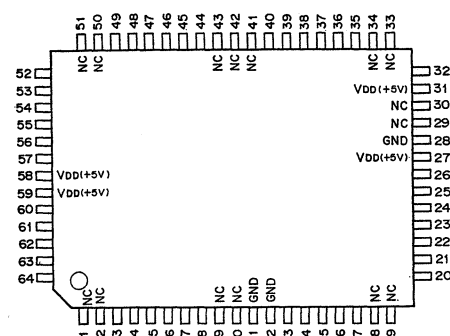
* ABOVE DIAGRAM SHOWS CONDITIONS BEFORE PROGRAMMING.

GAL22V10-15L (LATTICE)
GAL22V10B-15LP (LATTICE)
C-MOS ELECTRICALLY ERASABLE PROGRAMMABLE LOGIC DEVICE
- TOP VIEW -



* ABOVE DIAGRAM SHOWS CONDITIONS BEFORE PROGRAMMING.

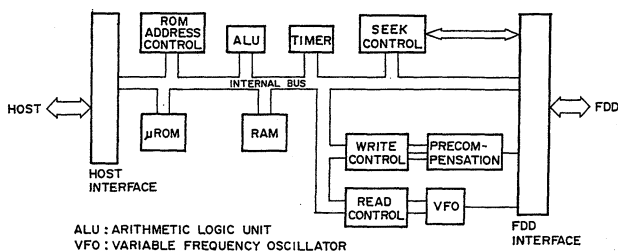
HD63265FP (HITACHI)
C-MOS FDC (FLOPPY DISK CONTROLLER)
- TOP VIEW -



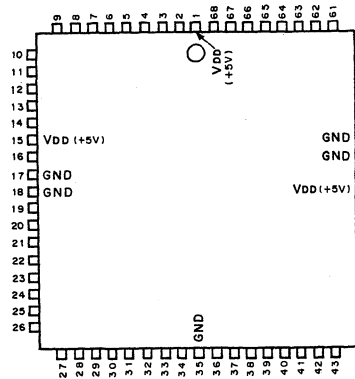
(V_{DD} = +5V)

PIN NO.	I/O	FUNCTION	PIN NO.	I/O	FUNCTION	PIN NO.	I/O	FUNCTION	PIN NO.	I/O	FUNCTION
1	—	NC	17	I/O	D4	33	—	NC	49	I	READY
2	—	NC	18	—	NC	34	—	NC	50	—	NC
3	I	RESET	19	—	NC	35	O	WGATE	51	—	NC
4	I	E(RD)	20	I/O	D5	36	O	WDATA	52	I	STEP
5	I	RW(WR)	21	I/O	D6	37	O	LATE	53	I	HDIR
6	I	CS	22	I/O	D7	38	O	EARLY	54	I	HSEL
7	I	DACK	23	O	DREQ	39	O	US1	55	I	HLOAD
8	I	RS	24	O	IRQ	40	O	US0	56	I	FRES
9	—	NC	25	I	DEND	41	—	NC	57	I	LCT
10	—	NC	26	—	V _{DD}	42	—	NC	58	—	V _{DD}
11	—	GND	27	I	CK	43	—	NC	59	—	V _{DD}
12	—	GND	28	—	GND	44	I	INDEX	60	I	NUM1
13	I/O	D0	29	—	NC	45	I	TRK0	61	I	NUM2
14	I/O	D1	30	—	NC	46	I	FAULT	62	I	SFORM
15	I/O	D2	31	—	V _{DD}	47	I	DSIDE	63	I	IFS
16	I/O	D3	32	I	RDATA	48	I	WPRT	64	I	8/5"

INPUT		OUTPUT	
00	8"/5" MODE SELECT	DREQ	DMA REQUEST
01	CHIP SELECT	IRQ	INTERRUPT REQUEST
02	DACK	US 0	UNIT SELECT 0
03	DEND	US 1	UNIT SELECT 1
04	DSIDE	WDATA	WRITE DATA
05	E (RD)	WGATE	WRITE GATE
06	FRES		
07	HDIR		
08	HLOAD		
09	HSEL		
10	IFS		
11	INTERFACE SELECT		
12	LCT		
13	LOW CURRENT		
14	NUM 1		
15	NUM 2		
16	R/W		
17	RDATA		
18	RS		
19	SFORM		
20	TRK0		
21	WPRT		
22			
23			
24			
25			
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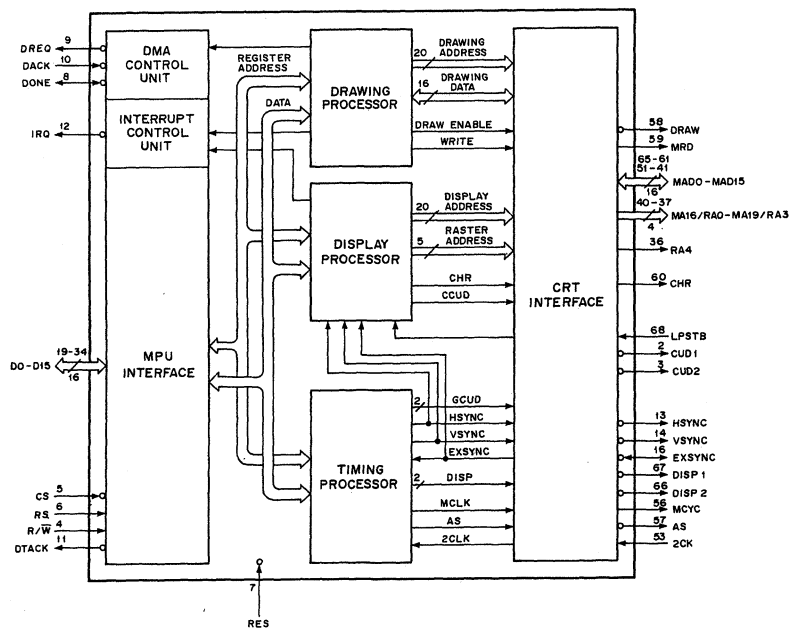
HD63484CP8 (HITACHI)

C-MOS ADVANCED CRT CONTROLLER
- TOP VIEW -

(VDD = +5V)

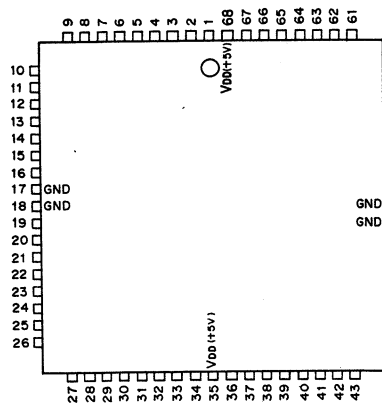
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	-	VDD	18	-	GND	35	-	GND	52	-	VDD
2	O	CUD1	19	I/O	D0	36	O	RA4	53	I	2CK
3	O	CUD2	20	I/O	D1	37	O	MA19/RA3	54	-	GND
4	I	R/W	21	I/O	D2	38	O	MA18/RA2	55	-	GND
5	I	CS	22	I/O	D3	39	O	MA17/RA1	56	O	MCYC
6	I	RS	23	I/O	D4	40	O	MA16/RA0	57	O	AS
7	I	RES	24	I/O	D5	41	I/O	MAD15	58	O	DRAW
8	I/O	DONE	25	I/O	D6	42	I/O	MAD14	59	O	MRD
9	O	DREQ	26	I/O	D7	43	I/O	MAD13	60	O	CHR
10	I	DACK	27	I/O	D8	44	I/O	MAD12	61	I/O	MAD4
11	I	DTACK	28	I/O	D9	45	I/O	MAD11	62	I/O	MAD3
12	O	IRQ	29	I/O	D10	46	I/O	MAD10	63	I/O	MAD2
13	O	HSYNC	30	I/O	D11	47	I/O	MAD9	64	I/O	MAD1
14	O	VSYNC	31	I/O	D12	48	I/O	MAD8	65	I/O	MAD0
15	-	VDD	32	I/O	D13	49	I/O	MAD7	66	O	DISP2
16	I/O	EXSYNC	33	I/O	D14	50	I/O	MAD6	67	O	DISP1
17	-	GND	34	I/O	D15	51	I/O	MAD5	68	I	LPSTB

19	D0	MAD0	65	INPUT	
20	D1	MAD1	64	2CK	: 2CLOCK
21	D2	MAD2	63	CS	: CHIP SELECT
22	D3	MAD3	62	DACK	: DMA ACKNOWLEDGE
23	D4	MAD4	61	DTACK	: DATA TRANSFER ACKNOWLEDGE
24	D5	MAD5	60	LPSTB	: LIGHT PEN STROBE
25	D6	MAD6	59	R/W	: READ/WRITE
26	D7	MAD7	58	RES	: RESET
27	D8	MAD8	57	RS	: REGISTER SELECT
28	D9	MAD9	56	OUTPUT	
29	D10	MAD10	55	AS	: ADDRESS STROBE
30	D11	MAD11	54	CHR	: CHARACTER
31	D12	MAD12	53	CUD1, 2	: CURSOR DISPLAY 1, 2
32	D13	MAD13	52	DISP1, 2	: DISPLAY TIMING 1, 2
33	D14	MAD14	51	DREQ	: DRAW
34	D15	MAD15	50	IRQ	: DMA REQUEST
			49	HSYNC	: HORIZONTAL SYNC
			48	MA16-MA19	: INTERRUPT REQUEST
			47	MCYC	: MEMORY ADDRESS 16-19
			46	MRD	: MEMORY CYCLE
			45	RA0-RA4	: MEMORY READ
			44	VSYNC	: RASTER ADDRESS
			43		: VERTICAL SYNC
			42		
			41		
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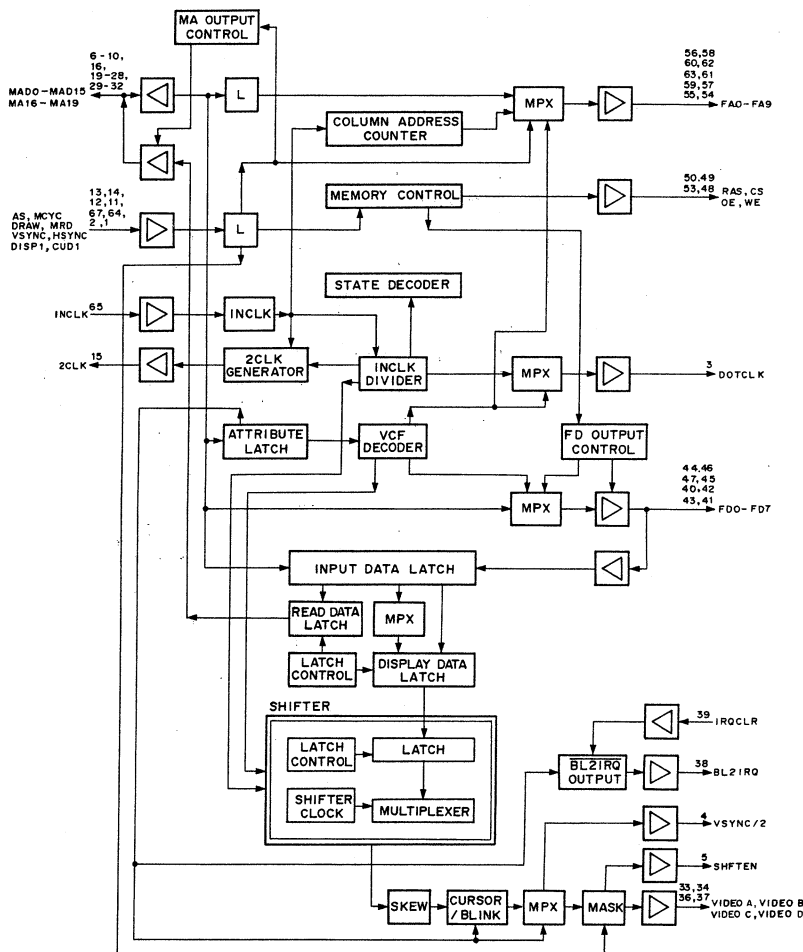
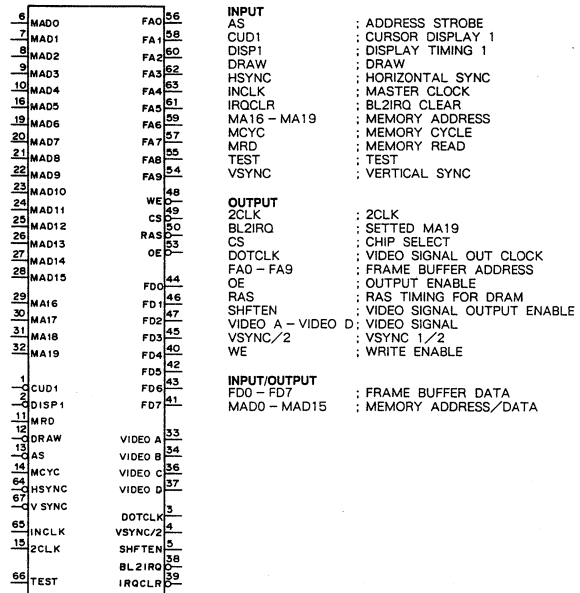
HD63487CP (HITACHI)

C-MOS MEMORY INTERFACE AND VIDEO ATTRIBUTE CONTROLLER - TOP VIEW -



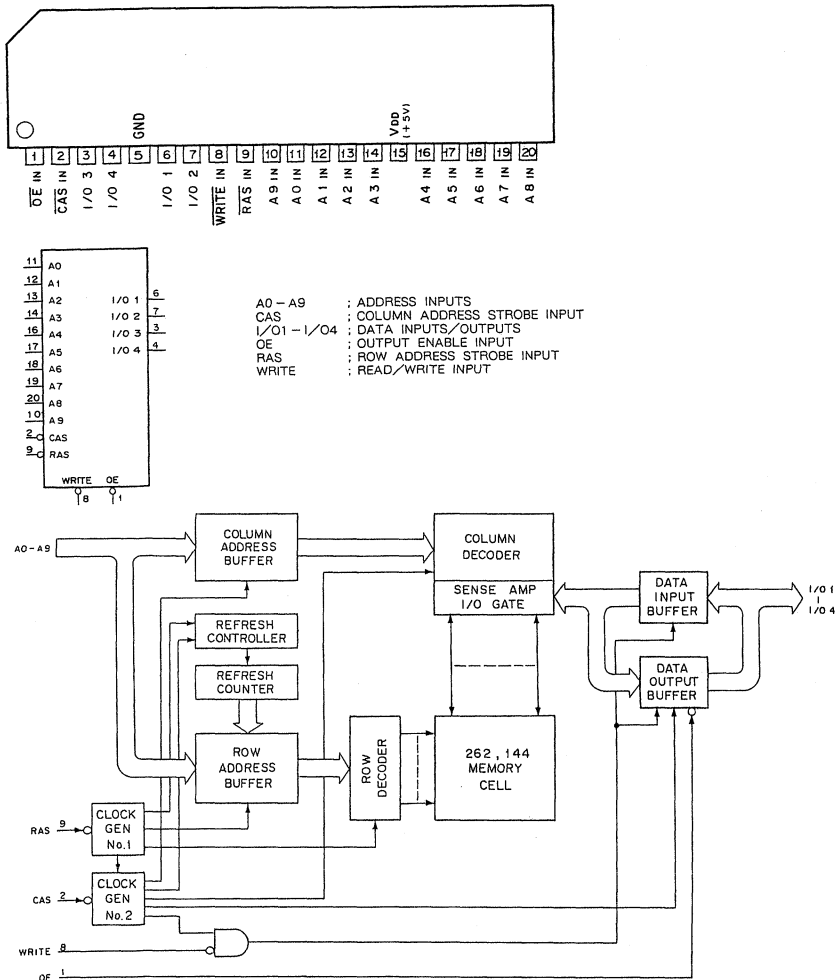
(VDD = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	CUD1	18	-	GND	35	-	VDD V	52	-	GND
2	I	DISP1	19	I/O	MAD6	36	O	VIDEO C	53	O	OE
3	O	DOTCLK	20	I/O	MAD7	37	O	VIDEO D	54	O	FA9
4	O	VSNC/2	21	I/O	MAD8	38	O	BL2IRQ	55	O	FA8
5	O	SHFTEN	22	I/O	MAD9	39	I	IRQCLR	56	O	FA0
6	I/O	MAD0	23	I/O	MAD10	40	I/O	FD4	57	O	FA7
7	I/O	MAD1	24	I/O	MAD11	41	I/O	FD7	58	O	FA1
8	I/O	MAD2	25	I/O	MAD12	42	I/O	FD5	59	O	FA6
9	I/O	MAD3	26	I/O	MAD13	43	I/O	FD6	60	O	FA2
10	I/O	MAD4	27	I/O	MAD14	44	I/O	FD0	61	O	FA5
11	I	MRD	28	I/O	MAD15	45	I/O	FD3	62	O	FA3
12	I	DRAW	29	I	MA16	46	I/O	FD1	63	O	FA4
13	I	AS	30	I	MA17	47	I/O	FD2	64	I	HSYNC
14	I	MCYC	31	I	MA18	48	O	WE	65	I	INCLK
15	O	2CLK	32	I	MA19	49	O	CS	66	I	TEST
16	I/O	MAD5	33	O	VIDEO A	50	O	RAS	67	I	VSNC
17	-	GND	34	O	VIDEO B	51	-	GND	68	-	VDD



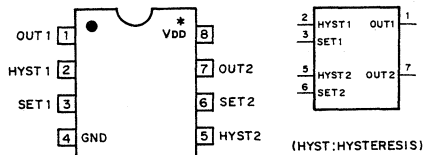
HM514402BZ-8 (HITACHI)

C-MOS 4M (1,048,576WORD × 4)-BIT MULTI-PORT DYNAMIC RAM
- SIDE VIEW -

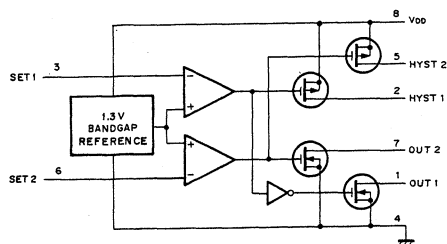


ICL7665ACSA (INTERSIL)
ICL7665SCPA (INTERSIL)

C-MOS MICROPPOWER UNDER/OVER VOLTAGE DETECTOR
- TOP VIEW -

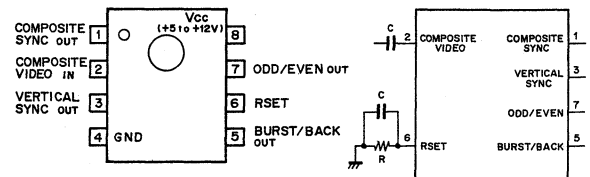


TYPE	VDD
ICL7665ACPA	+1.8 to +10V
ICL7665BCPA	+1.8 to +10V
ICL7665ACSA	+1.5 to +16V
ICL7665SCPA	+1.5 to +16V

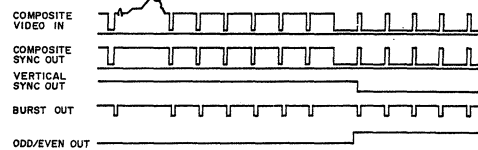


LM1881N (NS)

VIDEO SYNC SEPARATOR
- TOP VIEW -

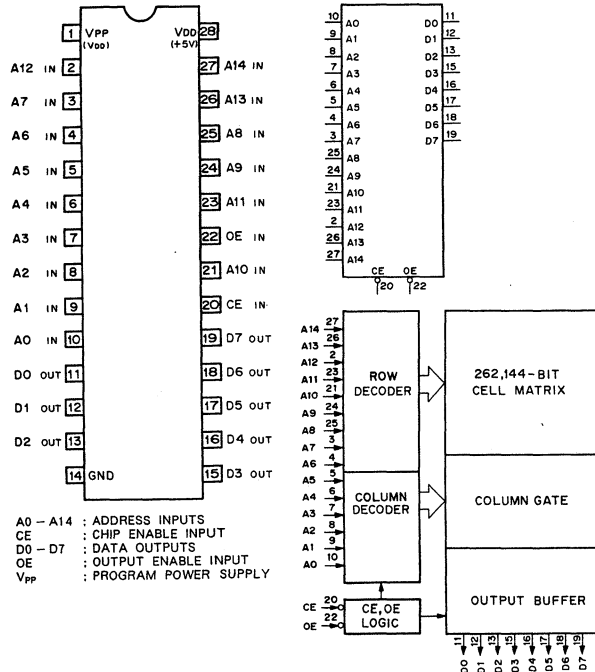


TIMING CHART



M27C256B-15F1 (SGS)

C-MOS 256K (32K × 8)-BIT UV ERASABLE PROM WITH 3-STATE OUTPUTS
- TOP VIEW -



A _n	CE	OE	V _{pp}	V _{pp}	D _n	FUNCTION
A _n	0	0	+5V	+5V	D _{out}	READ
A _n	0	1	+5V	+5V	HI-Z	OUTPUT DISABLE
X	1	X	+5V	+5V	HI-Z	STANDBY
A _n	0	1	+6V	+12.5V	D _{in}	PGM
A _n	1	0	+6V	+12.5V	D _{out}	PGM VERIFY(1)
A _n	0	0	+6V	+12.5V	D _{out}	PGM VERIFY(2)
X	1	1	+6V	+12.5V	HI-Z	PGM INH
A ₀	0	0	+5V	+5V	DEVICE CODE	ELECTRONIC SIGNATURE*

* SEE FOLLOWING DESCRIPTION.

ELECTRONIC SIGNATURE FOR P ROM WRITER

ADDRESS SETTINGS IN READ MODE

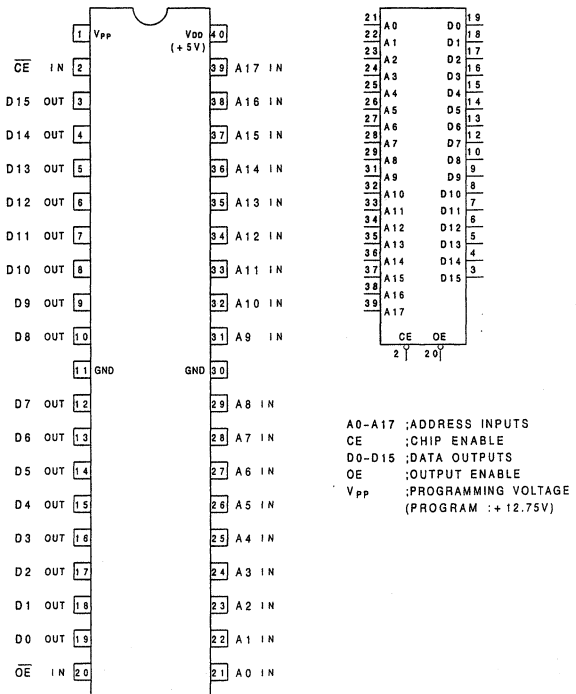
A1-A8	A9	A10-A13	A14, Vpp
0	12V	0	1

	A0	D7	D6	D5	D4	D3	D2	D1	D0
MAKER CODE	0	0	0	0	0	0	0	0	04H
DEVICE CODE	1	0	1	1	0	0	0	1	0

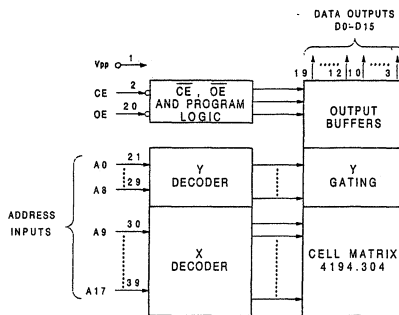
M27C4002-10F1 (SGS)

M27C4002-12F1 (SGS)

C-MOS 4M (256k × 16)-BIT UV EPROM
- TOP VIEW -



A0-A17 : ADDRESS INPUTS
CE : CHIP ENABLE
D0-D15 : DATA OUTPUTS
OE : OUTPUT ENABLE
V_{pp} : PROGRAMMING VOLTAGE
(PROGRAM : +12.75V)

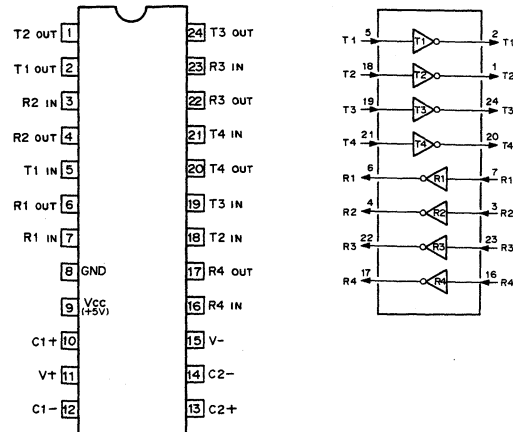


ABOVE DIAGRAM SHOWS CONDITIONS BEFORE PROGRAMMING.

CE	OE	A9	Vpp	OUTPUT	FUNCTION
0	0	X	X	D _{out}	READ
0	1	X	X	HI-Z	OUTPUT DISABLE
0	1	X	Vpp	D _{in}	PROGRAM
1	0	X	Vpp	D _{out}	VERIFY
1	1	X	Vpp	HI-Z	PROGRAM INHIBIT
1	X	X	X	HI-Z	STANDBY
0	0	Vh	Vdd	CODE	ELECTRONIC SIGNATURE

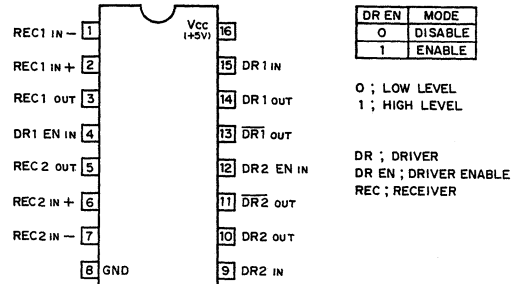
1 : HIGH LEVEL
0 : LOW LEVEL
X : DON'T CARE
HI-Z : HIGH IMPEDANCE
Vh : 12.0 ± 0.5 V

MAX238CNG (MAXIM)
+ 5V POWER RS-232 DRIVERS/RECEIVERS
- TOP VIEW -

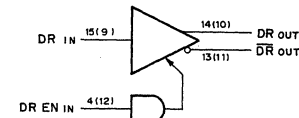


MC34051M (MOTOROLA)
MC34051P (MOTOROLA)

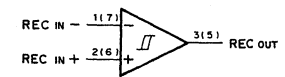
RS-422 DRIVER/RECEIVER
- TOP VIEW -



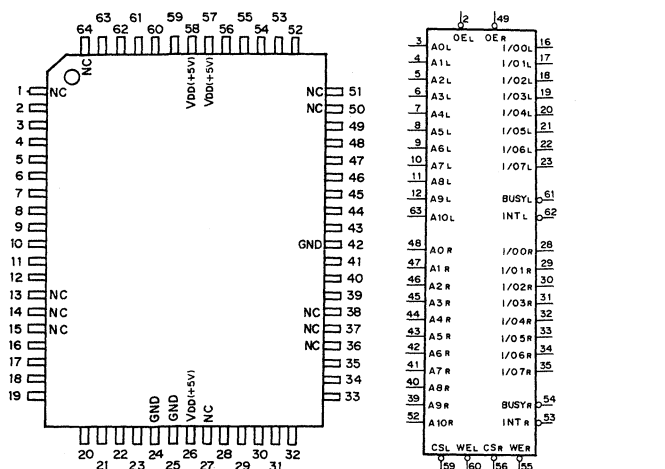
DRIVER CIRCUIT



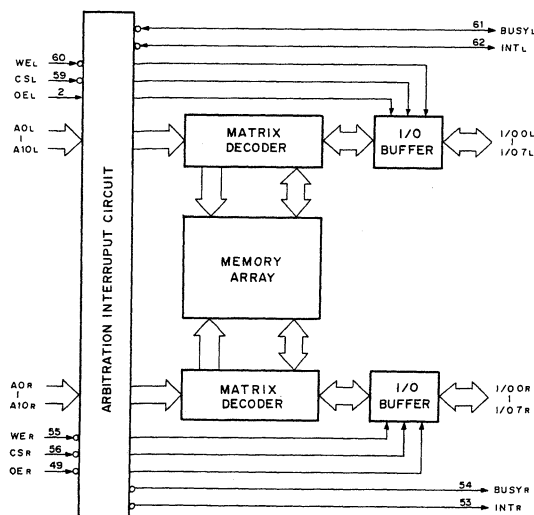
RECEIVER CIRCUIT



MB8421-90LPFQ (FUJITSU) (ACCESS TIME = 90ns) FLAT PACKAGE
CMOS 16384 (2Kx8) BIT DUAL PORT STATIC RAM
- TOP VIEW -

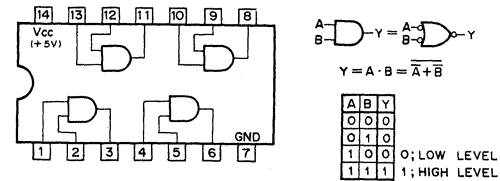


A0L - A10L, A0R - A10R: ADDRESS INPUTS
I/O0L - I/O7L, I/O0R - I/O7R: DATA INPUTS/OUTPUTS
CSN: CHIP SELECT INPUT
WEL, WER: WRITE ENABLE INPUT
OEL, OER: OUTPUT ENABLE INPUT
BUSYL, BUSYR: BUSY OUTPUT
INTL, INTR: INTERRUPT OUTPUT



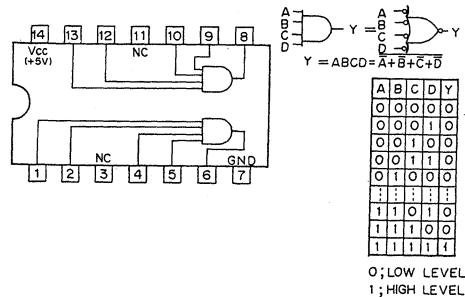
MC74F08M (MOTOROLA) FLAT PACKAGE

TTL 2-INPUT POSITIVE-AND GATE
- TOP VIEW -



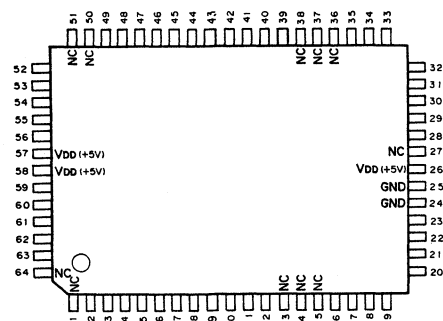
MC74F21M (MOTOROLA) FLAT PACKAGE

TTL 4-INPUT POSITIVE AND GATE
- TOP VIEW -

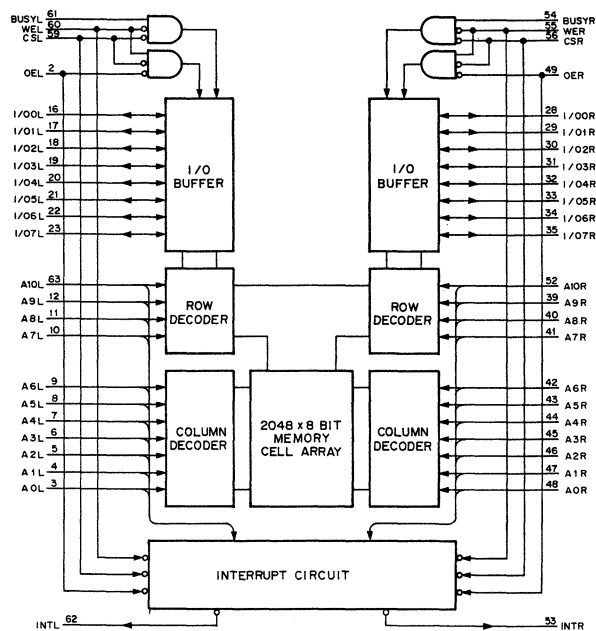


MB8431-90LPFQ (FUJITSU)

C-MOS 16K (2048x8)-BIT DUAL PORT STATIC RAM
- TOP VIEW -

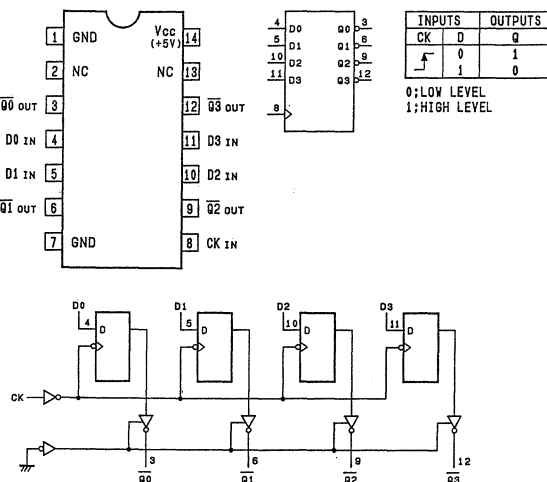
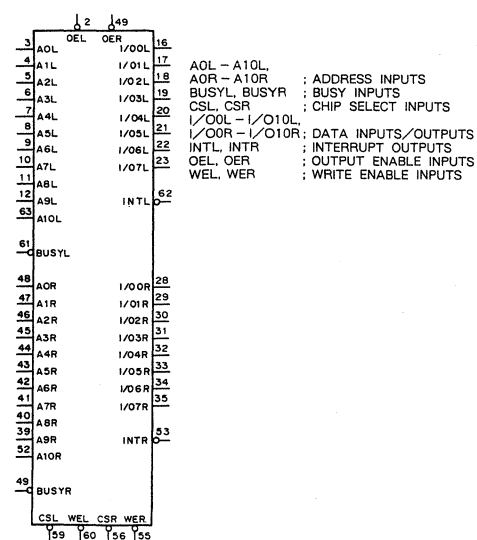


PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	-	NC	17	I/O	I/O1L	33	I/O	I/O5R	49	I	OER
2	I	OEL	18	I/O	I/O2L	34	I/O	I/O6R	50	-	NC
3	I	A0L	19	I/O	I/O3L	35	I/O	I/O7R	51	-	NC
4	I	A1L	20	I/O	I/O4L	36	-	NC	52	I	A10R
5	I	A2L	21	I/O	I/O5L	37	-	NC	53	O	INTR
6	I	A3L	22	I/O	I/O6L	38	-	NC	54	I	BUSYR
7	I	A4L	23	I/O	I/O7L	39	I	A9R	55	I	WER
8	I	A5L	24	-	GND	40	I	A8R	56	I	CSR
9	I	A6L	25	-	NC	41	I	A7R	57	-	VDD
10	I	A7L	26	-	VDD	42	I	A6R	58	-	VDD
11	I	A8L	27	-	NC	43	I	A5R	59	I	CSL
12	I	A9L	28	I/O	I/O0R	44	I	A4R	60	I	WEL
13	-	NC	29	I/O	I/O1R	45	I	A3R	61	I	BUSYL
14	-	NC	30	I/O	I/O2R	46	I	A2R	62	O	INTL
15	-	NC	31	I/O	I/O3R	47	I	A1R	63	I	A10L
16	I/O	I/O0L	32	I/O	I/O4R	48	I	A0R	64	-	NC



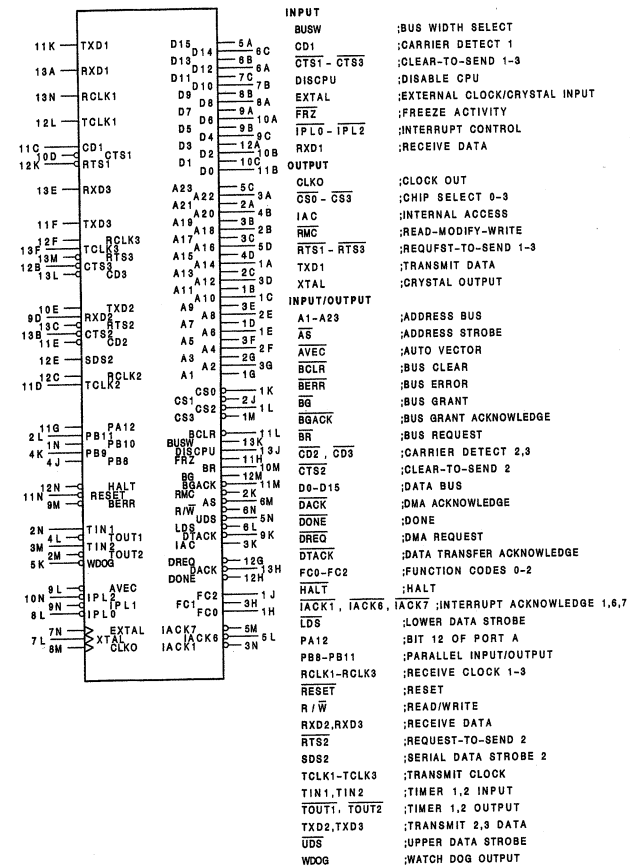
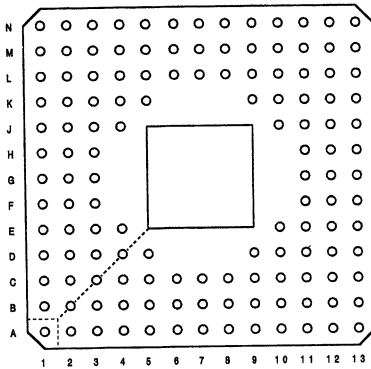
MC74F803N (MOTOROLA)

TTL INVERTING D-TYPE FLIP FLOP
- TOP VIEW -



MC68302FC16 (MOTOROLA) FLAT PACKAGE
MC68302FC16C (MOTOROLA) FLAT PACKAGE

C-MOS INTEGRATED MULTIPROTOCOL PROCESSOR
- BOTTOM VIEW -

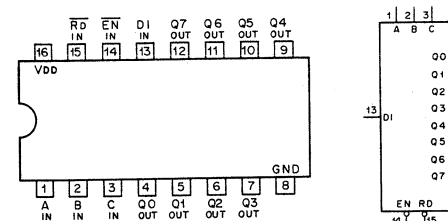


(VDD = +5V)

PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1A	I/O	A14	3H	I/O	FC1	7L	O	XTAL	11G	I/O	PA12
1B	I/O	A11	3J	-	GND	7M	-	GND	11H	I	FRZ
1C	I/O	A10	3K	O	IAC	7N	I	EXTAL	11J	-	NC
1D	I/O	A7	3L	-	GND	8A	I/O	D9	11K	O	TXD1
1E	I/O	A8	3M	I/O	TIN2	8B	I/O	D8	11L	I/O	BCLR
1F	-	GND	3N	I/O	IACK1	8C	-	VDD	11M	I/O	BGACK
1G	I/O	A1	4A	-	GND	8L	I	IPLO	11N	I/O	RESET
1H	I/O	FC0	4B	I/O	A20	8M	I	CLKO	12A	I/O	D3
1J	I/O	FC2	4C	-	GND	8N	-	VDD	12B	I	CTS3
1K	O	CS0	4D	I/O	A15	9A	I/O	D7	12C	I/O	RCLK2
1L	O	CS2	4E	-	VDD	9B	I/O	D5	12D	-	GND
1M	O	CS3	4J	I/O	PB8	9C	I/O	D4	12E	I/O	SDS2
1N	I/O	PB10	4K	I/O	PB9	9D	I/O	RXD2	12F	I/O	RCLK3
2A	I/O	A21	4L	I/O	TOUT1	9K	I/O	DTACK	12G	I/O	DREQ
2B	I/O	A18	4M	-	VDD	9L	I/O	AVEC	12H	I/O	DONE
2C	I/O	A13	4N	-	GND	9M	I/O	BERR	12J	-	NC
2D	-	GND	5A	I/O	D15	9N	I	IPL1	12K	O	RTS1
2E	I/O	A8	5B	-	VDD	10A	I/O	D8	12L	I/O	TCLK1
2F	I/O	A4	5C	I/O	A23	10B	I/O	D2	12M	I/O	BD
2G	I/O	A3	5D	I/O	A16	10C	I/O	D1	12N	I/O	HALT
2H	-	VDD	5K	I/O	WDOG	10D	I	CTS1	13A	I/O	RXD1
2J	O	CS1	5L	I/O	IACK6	10E	I/O	TXD2	13B	I	CTS2
2K	O	RMC	5M	I/O	IACK7	10J	-	GND	13C	I/O	RTS2
2L	I/O	PB11	5N	I/O	UDS	10K	-	VDD	13D	-	VDD
2M	I/O	TOUT2	6A	I/O	D12	10L	-	NC	13E	I/O	RXD3
2N	I/O	TIN1	6B	I/O	D13	10M	I/O	BR	13F	I/O	TCLK3
3A	I/O	A22	6C	I/O	D14	10N	I	IPL2	13G	-	GND
3B	I/O	A19	6L	I/O	LDS	11A	-	GND	13H	I/O	DACK
3C	I/O	A17	6M	I/O	A5	11B	I/O	D0	13J	I	DISCPU
3D	I/O	A12	6N	I/O	R/W	11C	I	ODT	13K	I	BUSW
3E	I/O	A9	7A	-	GND	11D	I/O	TCLK2	13L	I/O	CD3
3F	I/O	A5	7B	I/O	D10	11E	I/O	GD2	13M	O	RTS3
3G	I/O	A2	7C	I/O	D11	11F	I/O	TXD3	13N	I/O	RCLK1

MC74HC259N (MOTOROLA)
SN74HC259AN (TI)
SN74HC259ANS (TI) FLAT PACKAGE

C-MOS 8-BIT ADDRESSABLE LATCHES
- TOP VIEW -



MODE SELECTION

CONTROL INPUTS	OUTPUT OF ADDRESSED LATCH	OUTPUT OF EACH OTHER LATCH
R ₀ EN		
1 0	D1	Qno
1 1	Qno	Qno
0 0	D1	0
0 1	0	0

0: LOW LEVEL
1: HIGH LEVEL

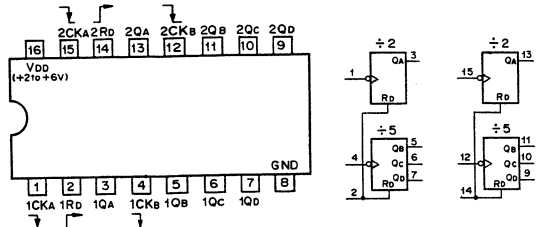
NOTE:

TYPE	VDD
TC40H	+2 to +6V
OTHERS	+2 to +6V

LATCH SELECTION

CONTROL INPUTS	LATCH ADDRESSED
C B A	
0 0 0	0
0 0 1	1
0 1 0	2
0 1 1	3
1 0 0	4
1 0 1	5
1 1 0	6
1 1 1	7

MC74HC390F (MOTOROLA) FLAT PACKAGE
MC74HC390N (MOTOROLA)
TC74HC390P (TOSHIBA)
C-MOS DIVIDE-BY-2 AND DIVIDE-BY-5 COUNTER
- TOP VIEW -



COUNT SEQUENCE
÷ 2 SECTION

COUNT	QA
0	0
1	1

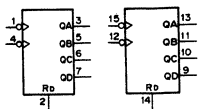
÷ 5 SECTION

COUNT	QA	QB	QC	QD
0	0	0	0	0
1	0	0	1	0
2	0	1	0	0
3	0	1	1	0
4	1	0	0	0

RESET/COUNT FUNCTION

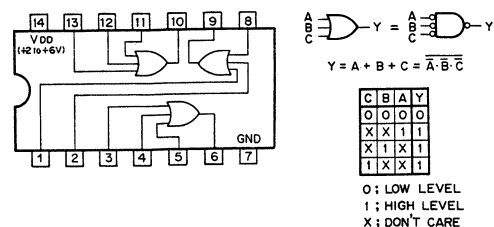
Rd	Qd	Qc	Qb	Qa
1	0	0	0	0
0	COUNT			

0; LOW LEVEL
1; HIGH LEVEL



MC74HC4075N (MOTOROLA)
SN74HC4075AN (TI)

C-MOS 3-INPUT OR GATE
- TOP VIEW -



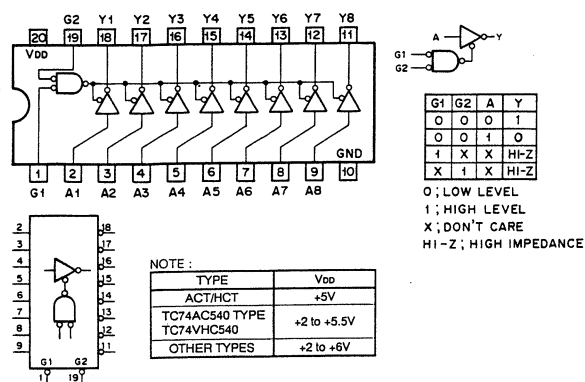
$$Y = A + B + C = \overline{A} \cdot \overline{B} \cdot \overline{C}$$

C	B	A	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

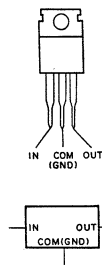
MC74HC540N (MOTOROLA)
SN74HC540AN (TI)
SN74HC540ANS (TI) FLAT PACKAGE

C-MOS 3-STATE INVERTING BUFFER/LINE DRIVER/LINE RECEIVER
- TOP VIEW -



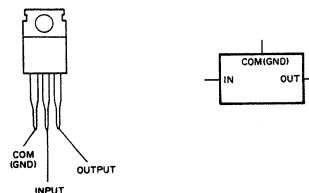
MC7805CT (MOTOROLA) +5V
MC7815CT (MOTOROLA) +15V
UPC7805H (NEC) +5V

POSITIVE VOLTAGE REGULATOR (1A)
- SIDE VIEW -



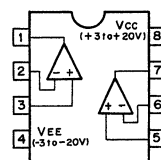
MC7915CT (MOTOROLA) -15V
TA79005S (TOSHIBA) -5V
TA79015S (TOSHIBA) -15V

NEGATIVE VOLTAGE REGULATOR (1A)
- SIDE VIEW -



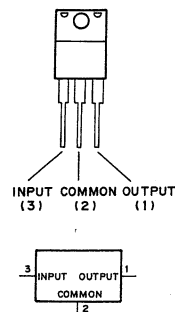
NE5532P (TI)

LOW NOISE OPERATIONAL AMPLIFIER
- TOP VIEW -

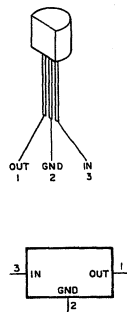


NJM7812FA (JRC) +12V

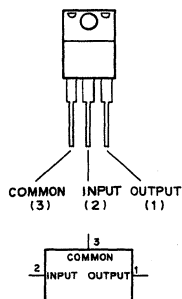
POSITIVE VOLTAGE REGULATOR (500mA)
- FRONT VIEW -



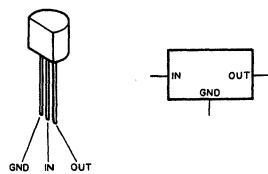
NJM78L05A (JRC) +5V (100mA)
POSITIVE VOLTAGE REGULATOR



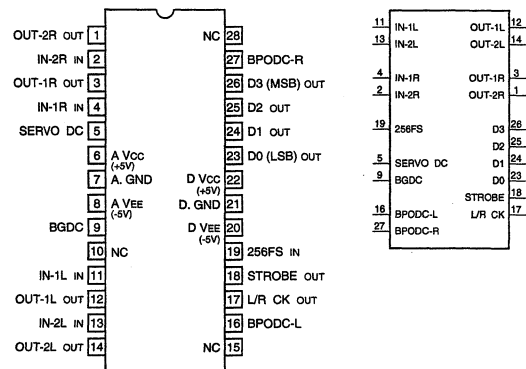
NJM7912FA (JRC) -12V
NEGATIVE VOLTAGE REGULATOR (500mA)
- FRONT VIEW -



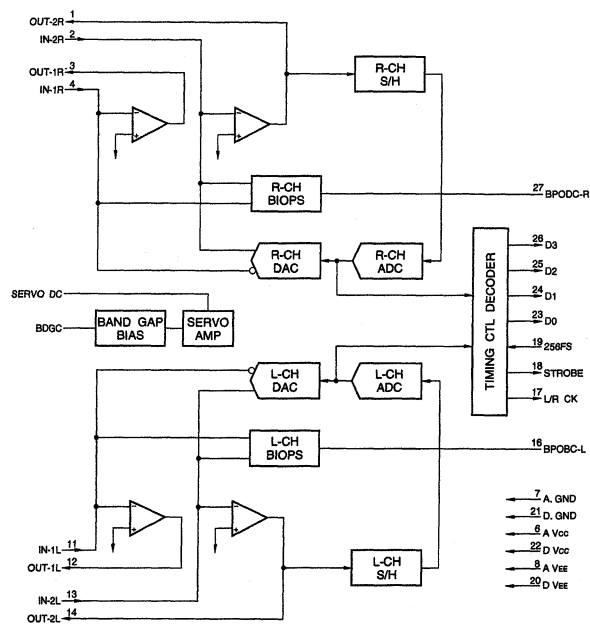
NJM79L05A (JRC) -5V
NEGATIVE VOLTAGE REGULATOR (100mA)



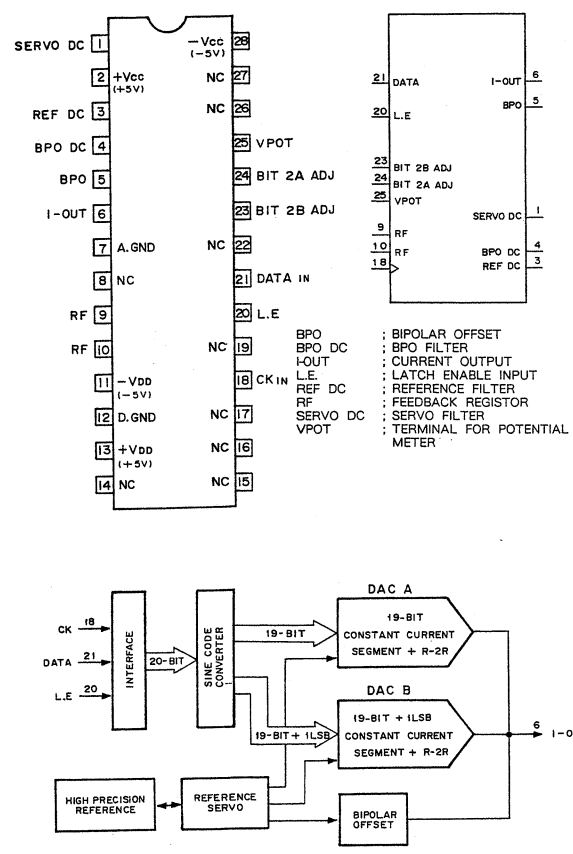
PCM1760P (BURR-BROWN)
20-BIT A/D CONVERSION SYSTEM
- TOP VIEW -



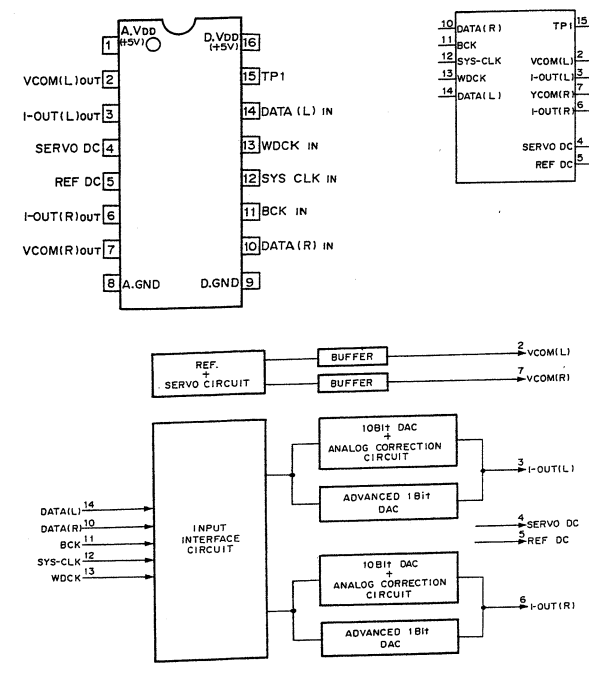
INPUT	OUTPUT
IN-1L ; Lch FIRST STAGE AMP	D0 - D3 ; DATA OUTPUTS
IN-1R ; Rch FIRST STAGE AMP	L/R CK ; L/R CLOCK (64FS)
IN-2L ; Lch SECOND STAGE AMP	STROBE ; DATA STROBE
IN-2R ; Rch SECOND STAGE AMP	OUT-1L ; Lch FIRST STAGE AMP
256FS ; SYSTEM CLOCK	OUT-1R ; Rch FIRST STAGE AMP
	OUT-2L ; Lch SECOND STAGE AMP
	OUT-2R ; Rch SECOND STAGE AMP



PCM63P-K (BURR-BROWN)
20-BIT SERIAL D/A CONVERTER
- TOP VIEW -

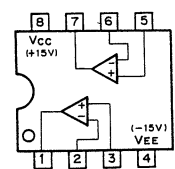


PCM69AP (BURR-BROWN)
C-MOS DUAL 18-BIT D/A CONVERTER
- TOP VIEW -

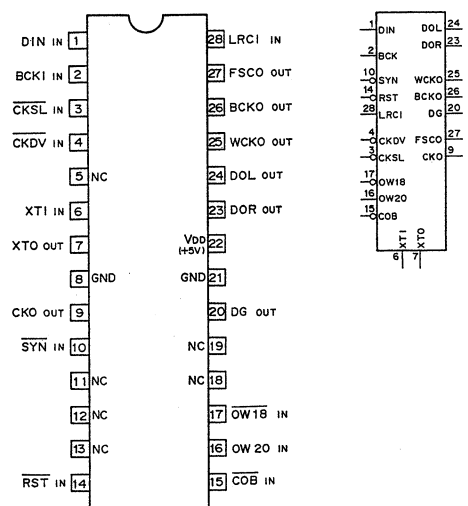


RC4558P (RAYTHEON)
UPC4558C (NEC)

DUAL OPERATIONAL AMPLIFIER
- TOP VIEW -



SM5813APT (NPC)
C-MOS AUDIO DIGITAL FILTER
- TOP VIEW -



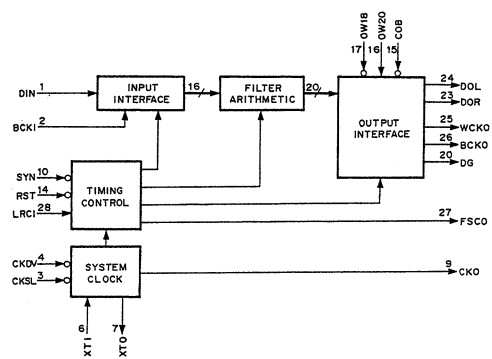
INPUT
 BCKI : INPUT DATA BIT CLOCK
 CKDV, CKSL : SYSTEM CLOCK SELECT
 COB : 2'S COMPLEMENT/COB SELECT (H: 2'S COMPLEMENT, L: COB)
 DIN : INPUT DATA
 LRCI : SYSTEM CLOCK (H: L-CH, L: R-CH)
 OW18, 20 : OUTPUT BIT NUMBER SELECT

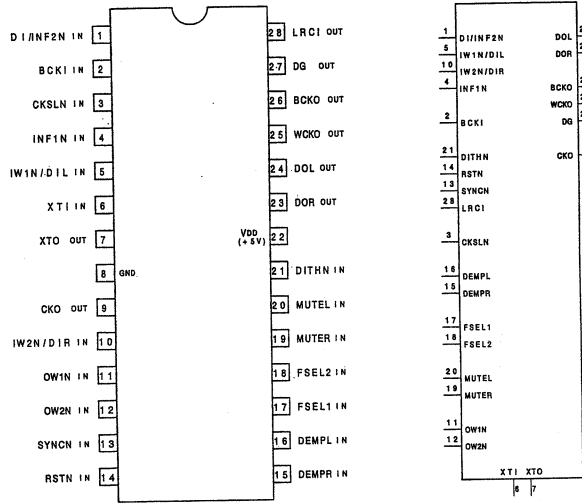
OUTPUT BIT	16	18	20
OW18	H	L	H
OW20	H	H	L

RST : SYSTEM RESET (H: NORMAL, L: SYSTEM RESET)
 SYN : JITTER FREE/FORCED SYNCHRONIZATION SELECT (H: JITTER FREE, L: FORCED SYNCHRONIZATION)
 XT1 : OSCILLATOR

	XT1	125fs	256fs	384fs	512fs
CKSL	H	L	H	L	L
CKDV	H	H	L	L	L

OUTPUT
 BCKO : OUTPUT DATA BIT CLOCK
 CKO : SYSTEM CLOCK
 DG : DEGLITCH CONTROL CLOCK
 DOL, DOR : L, R DATA
 FSCO : DATA SAMPLING CLOCK
 WCKO : OUTPUT WORD CLOCK
 XTO : OSCILLATOR



SM583AP1
SM5842APT (NPC)
C-MOS 8TIMES OVER SAMPLING DIGITAL FILTER FOR DIGITAL AUDIO
- TOP VIEW -

INPUT

BCKI :INPUT BIT CLOCK
 CKSLN :OSCILLATE AND INPUT FREQUENCY SELECT (H;384 fs, L;256 fs)
 DEMPL :Lch DEEMPHASIS SIGNAL (L;OFF, H;ON)
 DEMPR :Rch DEEMPHASIS SIGNAL (L;OFF, H;ON)
 DI/INF2N:INPUT DATA (INF1N=L)/INPUT FORMAT SELECT 2 (INF1N=H)
 DITHN :DITHER ON/OFF SELECT (L;ON, H;OFF)
 FSEL1 :DEEMPHASIS FILTER SELECT 1
 FSEL2 :DEEMPHASIS FILTER SELECT 2

fs (Hz)	32k	44.1k	48k
FSEL1	H	L	L
FSEL2	H	L	H

INF1N :INPUT FORMAT SELECT 1

	TERMINAL	INPUT FORMAT		
		LR MUTUALLY BELOW STUFFING	LR MUTUALLY ABOVE STUFFING	LR SIMULTANEOUSLY ABOVE STUFFING
SETTING	INF1N	L	H	
	INF2N	DI TERMINAL	L	H
TERMINAL FUNCTION	NO.1	DI	INF2N	
	NO.5	IW1N	DIL	
	NO.10	IW2N	DIR	

IW1N/DIL:INPUT WORD LENGTH SELECT 1 (INF1N=L)/Lch DATA INPUT (INF1N=H)
 IW2N/DIR:INPUT WORD LENGTH SELECT 2 (INF1N=L)/Rch INPUT DATA (INF1N=H)

INPUT FORMAT	INPUT WORD LENGTH (BIT)	LR MUTUALLY BELOW STUFFING		LR MUTUALLY ABOVE STUFFING	LR SIMULTANEOUSLY ABOVE STUFFING
		16	18	20	24
5	IW1N/DIL	H	L	H	L (USED AS DIL TERMINAL)
10	IW2N/DIR	H	H	L	L (USED AS DIR TERMINAL)
4	INF1N	L			H
1	INF2N/DI (USED AS DI TERMINAL)	L			H

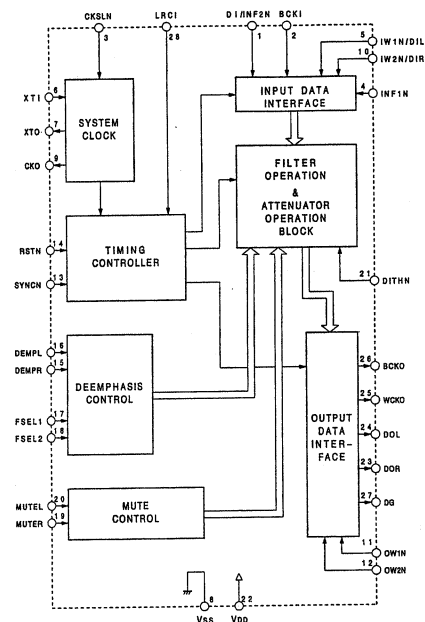
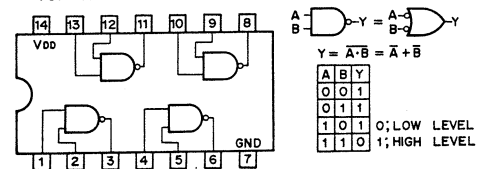
MUTEL :MUTE SIGNAL Lch (L;NORMAL OUTPUT,H;MUTING)
 MUTER :MUTE SIGNAL Rch (L;NORMAL OUTPUT,H;MUTING)
 OW1N :OUTPUT WORD LENGTH SELECT 1
 OW2N :OUTPUT WORD LENGTH SELECT 2

SETTING	OW1N	OUTPUT WORD LENGTH (BIT)			
		18	20	22	24
	OW2N	H	L	H	L
		H	H	L	L

RSTN :SYSTEM RESET (L;SYSTEM RESET, H;NORMAL OPERATION)
 SYNCN :SYNCHRONIZATION MODE SELECT
 (L;FORCED SYNCHRONIZATION MODE, H;JITTER FREE MODE)
 XTI :OSCILLATOR INPUT TERMINAL

OUTPUT

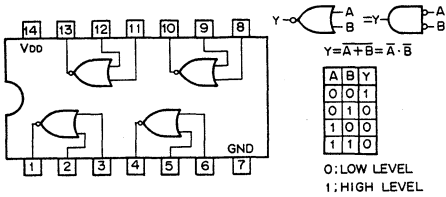
BCKO :OUTPUT BIT CLOCK
 CKO :OSCILLATOR BLOCK OUTPUT CLOCK
 DG :DEGLITCH OUTPUT
 DOL :Lch DATA OUTPUT
 DOR :Rch DATA OUTPUT
 LRCI :INPUT DATA SAMPLING RATE(fs) CLOCK
 WCKO :OUTPUT WORD CLOCK
 XTO :OSCILLATOR OUTPUT TERMINAL


SN74HC00AN (TI)
SN74HC00ANS (TI) FLAT PACKAGE
C-MOS QUAD 2-INPUT NAND GATES
- TOP VIEW -

NOTE:

TYPE	VDD
TC74AC00 TYPE	+2 to +5.5V
TC74VHC00	+5V
MC74HCT00N	+4.5 to +5.5V
74ACT00 TYPE	+2 to +6V
OTHER TYPES	

SN74HC02ANS (TI) FLAT PACKAGE

C-MOS QUAD 2-INPUT NOR GATES
- TOP VIEW -

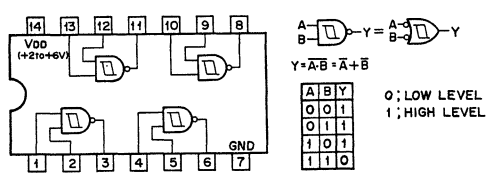


NOTE:

TYPE	V _{DD}
TC74AC02F	+2 to +5.5V
74ACT02SJ TC74ACT02F	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

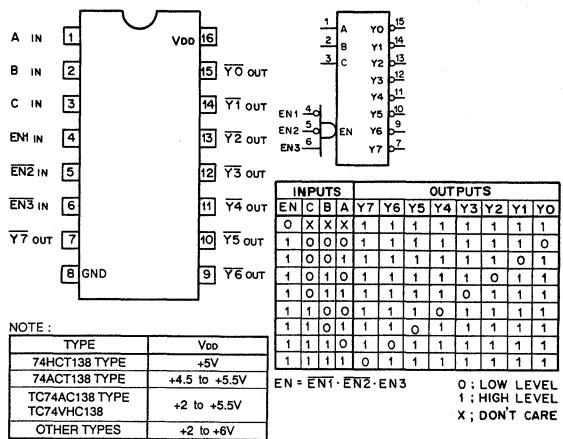
SN74HC132ANS (TI) FLAT PACKAGE

C-MOS 2-INPUT NAND SCHMITT TRIGGER
- TOP VIEW -



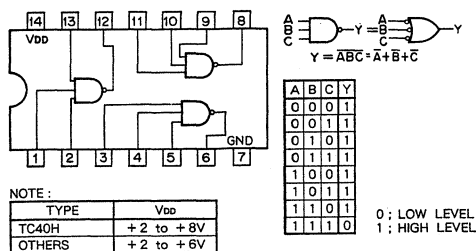
SN74HC138ANS (TI) FLAT PACKAGE

C-MOS 3-TO-8 LINE DECODER/DEMULPLEXER
- TOP VIEW -



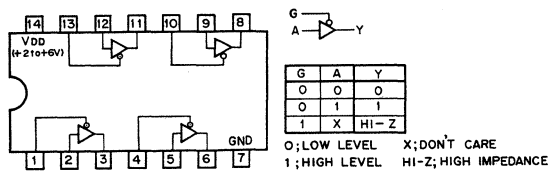
SN74HC10AN (TI)

C-MOS 3-INPUT NAND GATE
- TOP VIEW -



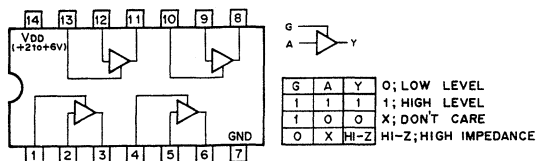
SN74HC125ANS (TI) FLAT PACKAGE

C-MOS BUS BUFFER GATES WITH 3-STATE OUTPUT
- TOP VIEW -



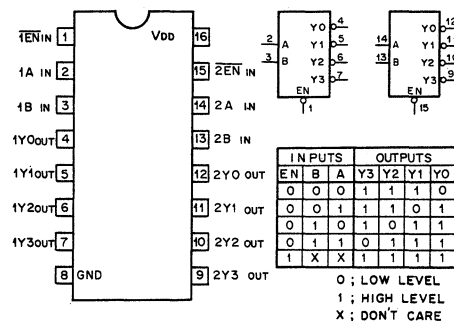
SN74HC126ANS (TI) FLAT PACKAGE

C-MOS BUS BUFFER GATES WITH 3-STATE OUTPUT
- TOP VIEW -



SN74HC139ANS (TI) FLAT PACKAGE

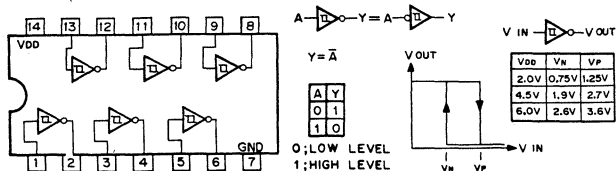
C-MOS DUAL 2-TO-4 DECODER/DEMULPLEXER
- TOP VIEW -



NOTE:

TYPE	V _{DD}
74AC/74HC	+2 to +6V
74ACT	+5V
TC74AC139	+2 to +5.5V

SN74HC14AN (TI)
SN74HC14ANS (TI) FLAT PACKAGE
C-MOS HEX SCHMITT TRIGGER INVERTERS
- TOP VIEW -

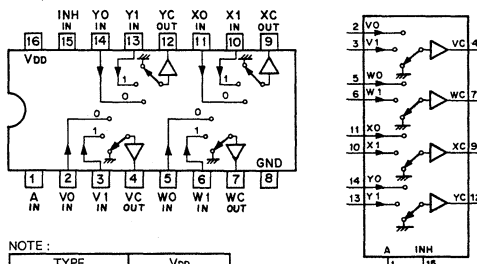


NOTE:

TYPE	V _{DD}
TC74AC14 TYPE	+2 to +5.5V
OTHER TYPES	+2 to +6V

SN74HC157ANS (TI) FLAT PACKAGE

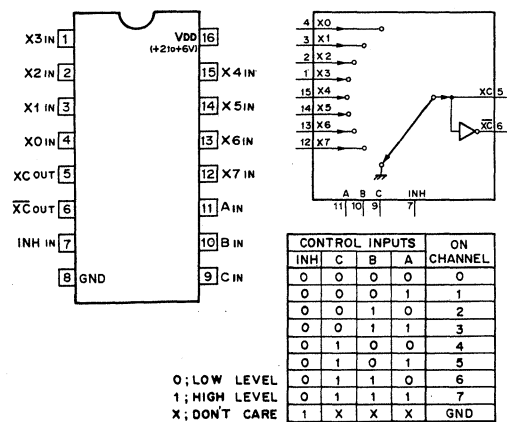
C-MOS QUAD 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
- TOP VIEW -



NOTE:

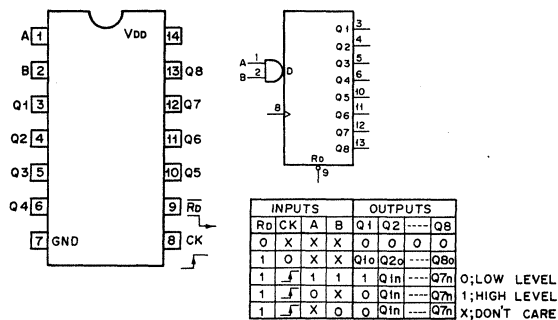
TYPE	V _{DD}
74ACT157	+5V
TC74AC157P TC74AC157F	+2 to +5.5V
TC40H	+2 to +8V
OTHER TYPES	+2 to +6V

SN74HC151ANS (TI) FLAT PACKAGE
C-MOS 8-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
- TOP VIEW -



SN74HC164ANS (TI) FLAT PACKAGE

C-MOS 8-BIT SERIAL-IN/PARALLEL-OUT SHIFT REGISTER
- TOP VIEW -

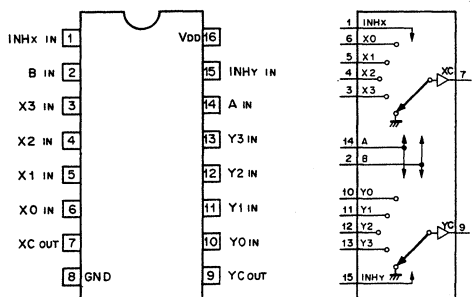


NOTE:

TYPE	V _{DD}
TC74AC164 TYPE	+2 to +5.5V
OTHER TYPES	+2 to +6V

SN74HC153ANS (TI) FLAT PACKAGE

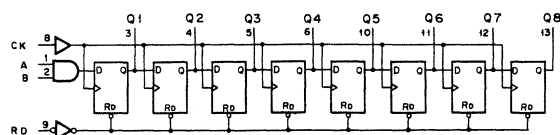
C-MOS DUAL 4-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
- TOP VIEW -



TYPE	V _{DD}
EXCEPT FOL TYPE	+2 to +6V
74ACT153PC 74ACT153SJ	+5V
TC74AC153P	+2 to +5.5V
TC40H	+2 to +8V

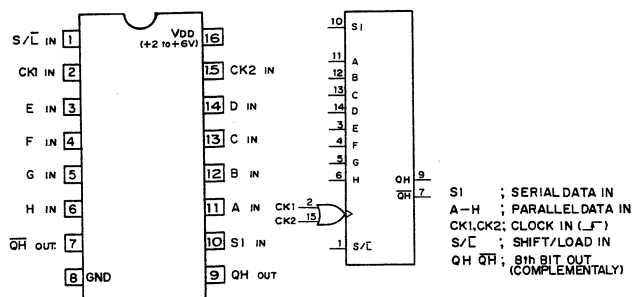
CONTROL IN	ON CHANNEL
INH	B
0	0
0	1
0	2
0	3
1	X

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE



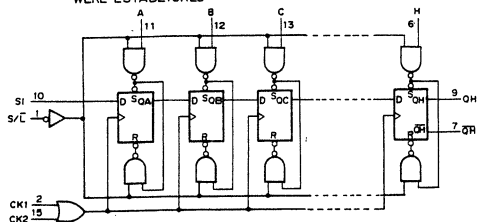
SN74HC165ANS (TI) FLAT PACKAGE

C-MOS SERIAL- OR PARALLEL-INPUT SHIFT REGISTER
- TOP VIEW -



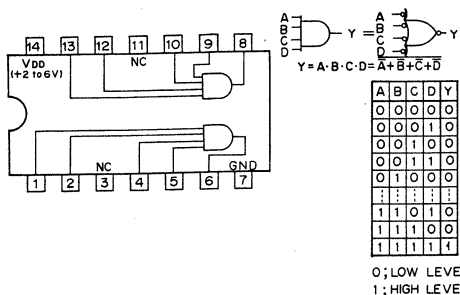
INPUTS			CONTENTS/OUTPUT			OPERATION
S/L	CK1+CK2	S1	A---H	QA	QB---QH	
0	X	X	a---h	0	QAo---QHo	PARALLEL LOAD
1	1	0	X	0	QAo---QHo	RIGHT SHIFT
1	1	1	X	1	QAo---QHo	RIGHT SHIFT
1	1	X	X	QAo	QB---QHo	NO COUNT
1	0	X	X	QAo	QB---QHo	NO COUNT
1	1	X	X	QAo	QB---QHo	NO COUNT

0; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE
a-h; LEVEL OF INPUTS A-H
QAo-QHo; LEVEL OF QA-QH BEFORE THE INDICATED INPUT CONDITIONS WERE ESTABLISHED



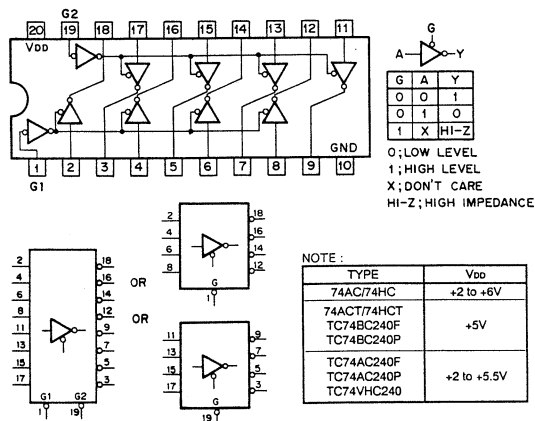
SN74HC21ANS (TI) FLAT PACKAGE TC74HC21AF (TOSHIBA) FLAT PACKAGE

C-MOS DUAL 4-INPUT POSITIVE AND GATE
- TOP VIEW -



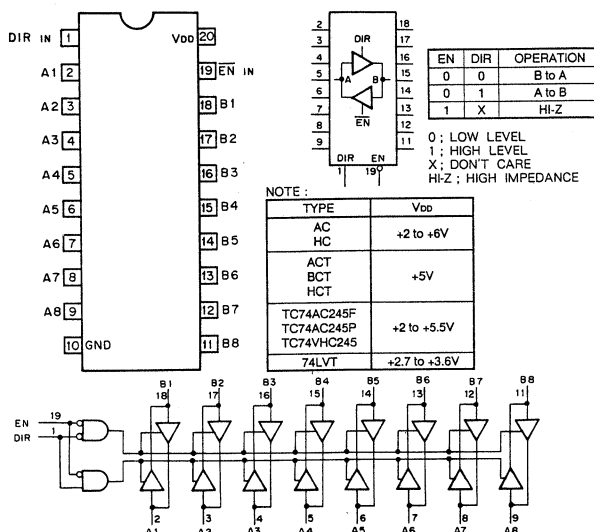
SN74HC240ANS (TI) FLAT PACKAGE

C-MOS 3-STATE INVERTER/LINE DRIVER
- TOP VIEW -



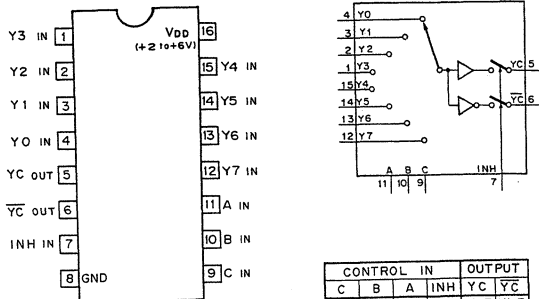
SN74HC245AN (TI) SN74HC245ANS (TI) FLAT PACKAGE

C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS
- TOP VIEW -



SN74HC251ANS (TI) FLAT PACKAGE

C-MOS 8-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER WITH 3-STATE OUTPUT
- TOP VIEW -



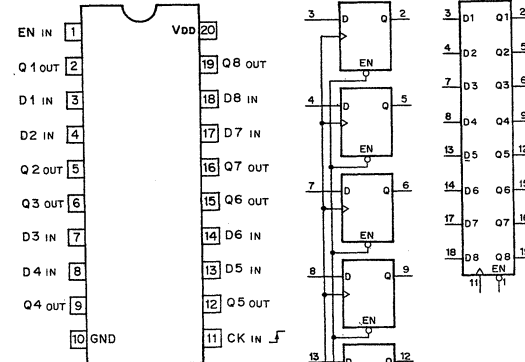
CONTROL IN			OUTPUT	
C	B	A	INH	YC
X	X	X	1	HI-Z
0	0	0	0	Y0
0	0	1	0	Y1
0	1	0	0	Y2
0	1	1	0	Y3
1	0	0	0	Y4
1	0	1	0	Y5
1	1	0	0	Y6
1	1	1	0	Y7

0; LOW LEVEL
1; HIGH LEVEL
HI-Z; HIGH IMPEDANCE

SN74HC377ANS (TI)

TC74HC377AF (TOSHIBA) FLAT PACKAGE

C-MOS OCTAL D-TYPE FLIP-FLOPS WITH ENABLE
- TOP VIEW -



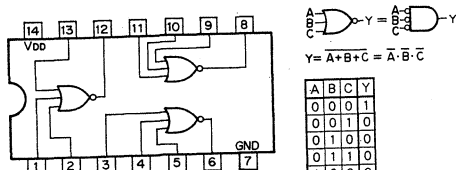
EACH FLIP-FLOP	
INPUTS	OUT
EN CK D Q	
1 X X	Q0
0 F 1	1
0 F 0	0
X 0 X	Q0

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

TYPE	VDD
74ACT TYPES	+5V
74FCT TYPES	+5V
OTHER TYPES	+2V to +6V

SN74HC27AN (TI)

C-MOS 3-LINE POSITIVE-NOR GATE
- TOP VIEW -



$$Y = A + B + C = \overline{A} \cdot \overline{B} \cdot \overline{C}$$

A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

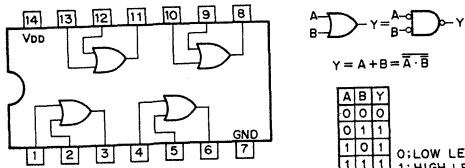
0; LOW LEVEL
1; HIGH LEVEL

NOTE:

TYPE	VDD
TC40H	+2 to +8V
OTHERS	+2 to +6V

SN74HC32ANS (TI) FLAT PACKAGE

C-MOS QUAD 2-INPUT OR GATES
- TOP VIEW -



$$Y = A + B = \overline{A} \cdot \overline{B}$$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

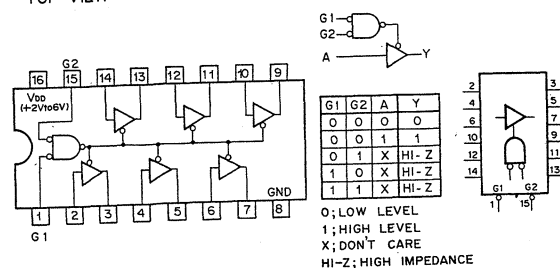
0; LOW LEVEL
1; HIGH LEVEL

NOTE:

TYPE	VDD
TC74AC32 TYPE	+2 to +5.5V
TC74VHC32	+2 to +6V
OTHER TYPES	+2 to +6V

SN74HC365ANS (TI) FLAT PACKAGE

C-MOS 3-STATE BUS DRIVER
- TOP VIEW -

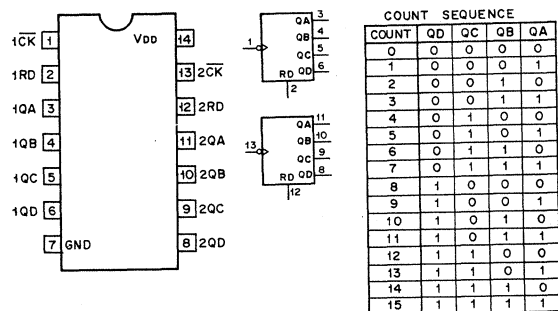


G1	G2	A	Y
0	0	0	0
0	0	1	1
0	1	X	HI-Z
1	0	X	HI-Z
1	1	X	HI-Z

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE

SN74HC393ANS (TI) FLAT PACKAGE

C-MOS DUAL 4-BIT BINARY COUNTER
- TOP VIEW -



COUNT SEQUENCE

COUNT	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

RESET/COUNT FUNCTION

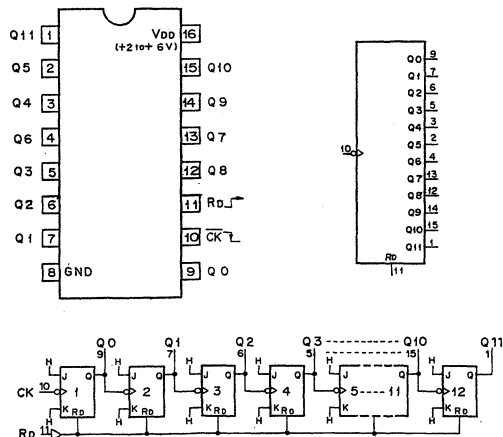
RD	QD	QC	QB	QA
1	0	0	0	0
0	COUNT			

0; LOW LEVEL
1; HIGH LEVEL

NOTE:

TYPE	VDD
74AC	+2 to 5.5V
74HC	+2 to 6V

SN74HC4040ANS (TI) FLAT PACKAGE
C-MOS 12-STAGE RIPPLE CARRY BINARY COUNTER/DRIVER
- TOP VIEW -

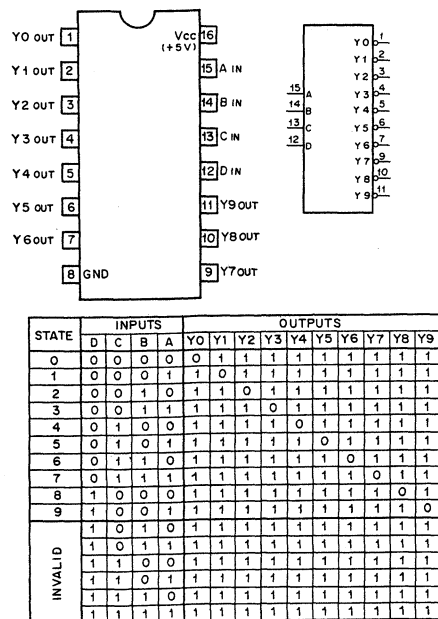


COUNT	Q11	Q10	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2	Q1	Q0	RD	Q11	Q0
0	0	0	0	0	0	0	0	0	0	0	0	0	1	ALL LOW	
1	0	0	0	0	0	0	0	0	0	0	0	1	0	COUNT	
2	0	0	0	0	0	0	0	0	0	0	1	0			
3	0	0	0	0	0	0	0	0	0	1	0	1			
4095	1	1	1	1	1	1	1	1	1	1	1	1			

0; LOW LEVEL
1; HIGH LEVEL

SN74LS145NS (TI) FLAT PACKAGE

TTL BCD-TO-DECIMAL DECODER/DRIVER
- TOP VIEW -

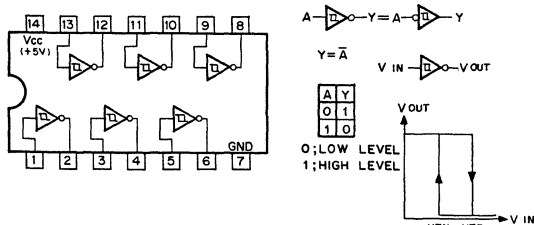


STATE	D	C	B	A	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9
0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
1	0	0	0	1	1	0	1	1	1	1	1	1	1	1
2	0	0	1	0	1	1	0	1	1	1	1	1	1	1
3	0	0	1	1	1	1	0	1	1	1	1	1	1	1
4	0	1	0	0	1	1	1	0	1	1	1	1	1	1
5	0	1	0	1	1	1	1	0	1	1	1	1	1	1
6	0	1	1	0	1	1	1	1	0	1	1	1	1	1
7	0	1	1	1	1	1	1	1	0	1	1	1	1	1
8	1	0	0	0	1	1	1	1	1	1	1	1	0	1
9	1	0	0	1	1	1	1	1	1	1	1	1	1	0
INVALID	1	0	1	0	1	1	1	1	1	1	1	1	1	1
	1	1	0	0	1	1	1	1	1	1	1	1	1	1
	1	1	0	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	0	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1

0; LOW LEVEL
1; HIGH LEVEL

SN74LS14NS (TI) FLAT PACKAGE

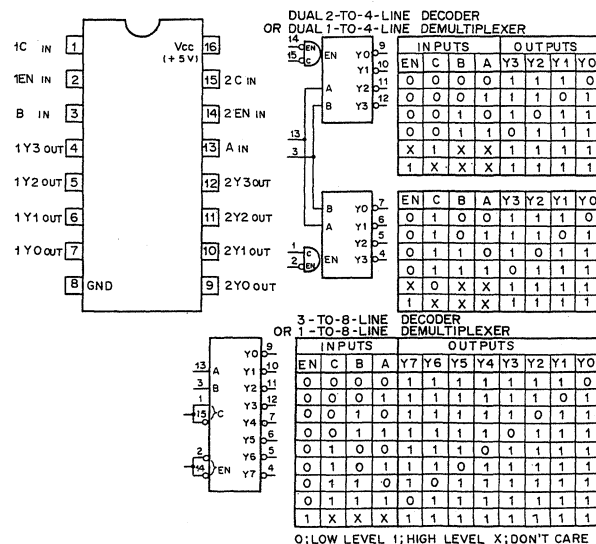
TTL SCHMITT TRIGGER INVERTER
- TOP VIEW -



TYPE	V _{TH}	V _{TP}
7414	0.9V	1.7V
74LS14	0.8V	1.6V

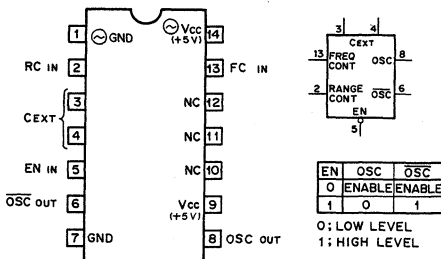
SN74LS156NS (TI) FLAT PACKAGE

TTL DUAL 2-TO-4-LINE DECODER/DEMULPLEXER WITH OPEN-COLLECTOR
- TOP VIEW -



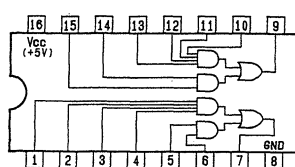
SN74LS624NS (TI) FLAT PACKAGE

TTL VOLTAGE CONTROLLED OSCILLATOR
- TOP VIEW -



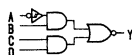
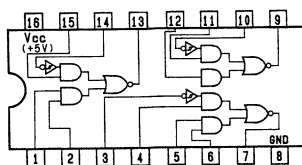
SN75123N (TI)
SN75123NS (TI)

DUAL LINE DRIVER AND TRIPLE LINE RECEIVER
- TOP VIEW -



SN75124N (TI)
SN75124NS (TI)

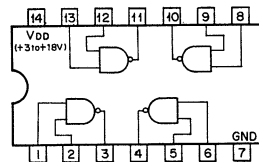
TRIPLE LINE RECEIVER
- TOP VIEW -



A	B	C	D	Y
X	X	1	1	0
0	1	X	X	0
1	X	0	X	1
X	0	0	X	1
1	X	X	0	1
X	0	X	0	1

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE

TC4011UBP (TOSHIBA)
C-MOS 2-INPUT NAND GATE
- TOP VIEW -

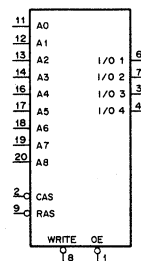
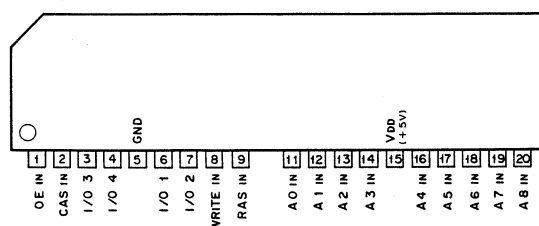


$$Y = A \cdot B = \overline{A + B}$$

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

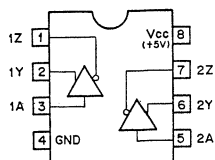
0: LOW LEVEL
1: HIGH LEVEL

TC514256BZ-60 (TOSHIBA) (ACCESS TIME = 60ns)
C-MOS 1M (262,144WORDx4)-BIT MULTI-PORT DYNAMIC RAM
- TOP VIEW -



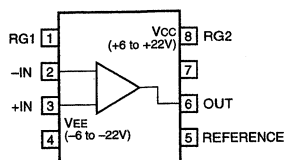
A0 - A8 : ADDRESS INPUTS
CAS : COLUMN ADDRESS STROBE INPUT
I/O1 - I/O4 : DATA INPUTS/OUTPUTS
OE : OUTPUT ENABLE INPUT
RAS : ROW ADDRESS STROBE INPUT
WRITE : READ/WRITE INPUT

SN75158PS (TI)
DUAL DIFFERENTIAL LINE DRIVE
- TOP VIEW -

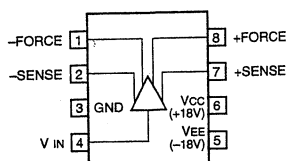


SSM-2017P (PMI)

SELF-CONTAINED AUDIO PREAMPLIFIER
- TOP VIEW -

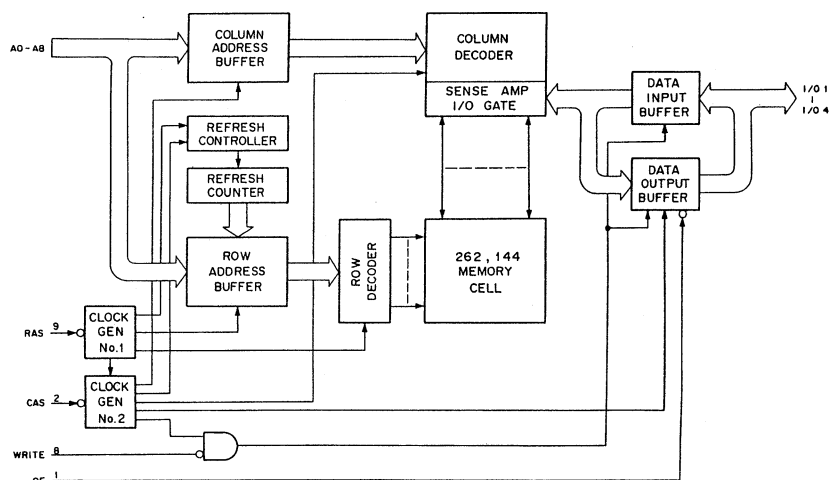
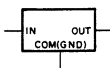
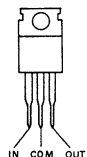


SSM-2142P (PMI)
BALANCED LINE DRIVER
- TOP VIEW -



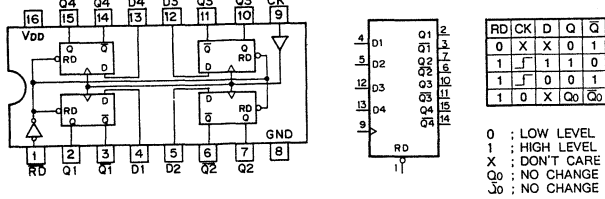
TA7805S (TOSHIBA) +5V
TA7812S (TOSHIBA) +12V
TA7815S (TOSHIBA) +15V

POSITIVE VOLTAGE REGULATOR (0.5A)
- SIDE VIEW -



TC74AC175F (TOSHIBA) FLAT PACKAGE
TC74AC175P (TOSHIBA)

C-MOS QUAD D-TYPE FLIP-FLOPS WITH RESET
- TOP VIEW -

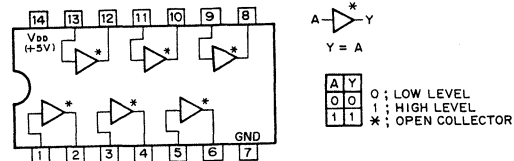


NOTE :

TYPE	V _{DD}
AC TYPE	+2 to +5.5 V
74ACT175 TYPE	+4.5V to 5.5 V
OTHER TYPES	+2 to +6 V

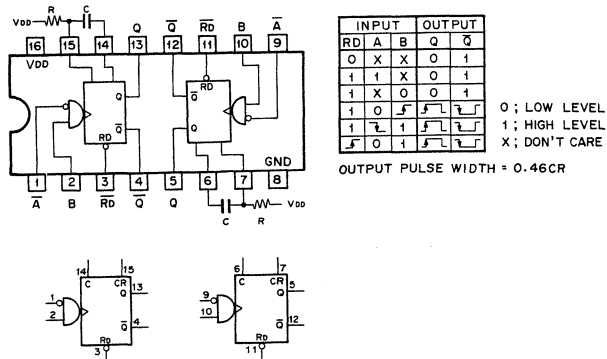
TC74HC07AF (TOSHIBA) FLAT PACKAGE
TC74HC07AP (TOSHIBA)

C-MOS BUFFER/DRIVER WITH OPEN-COLLECTOR
- TOP VIEW -



TC74HC123AF (TOSHIBA) FLAT PACKAGE
TC74HC123AP (TOSHIBA)

C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATORS
- TOP VIEW -

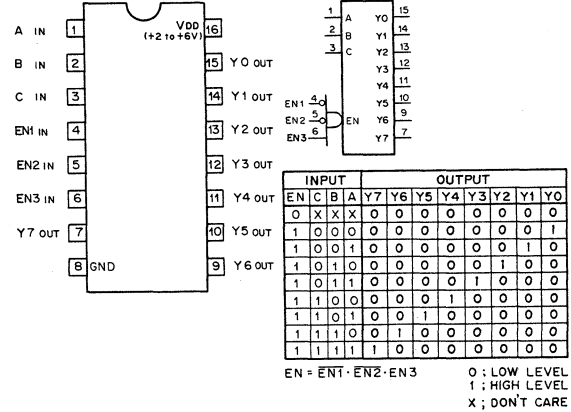


NOTE :

TYPE	V _{DD}
TC74HCT123AF	+5V
OTHER TYPES	+2 to +6V

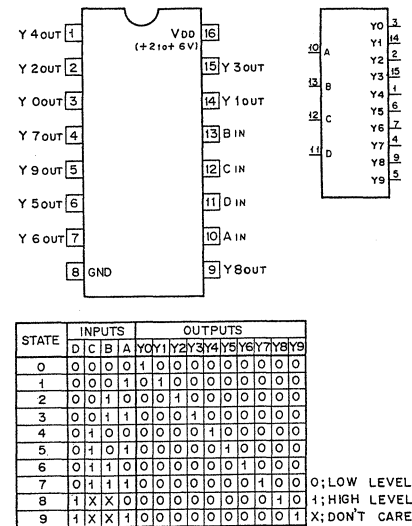
TC74HC238AF (TOSHIBA) FLAT PACKAGE

C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER
- TOP VIEW -



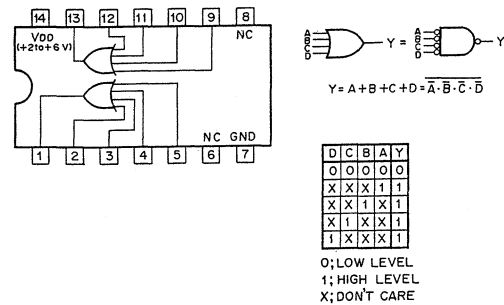
TC74HC4028AF (TOSHIBA)

C-MOS BCD TO DECIMAL DECODER
- TOP VIEW -

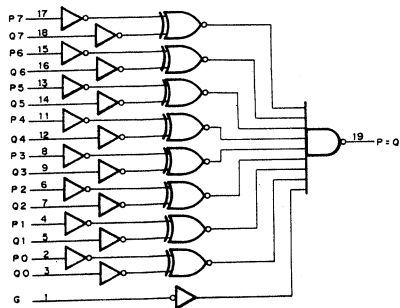
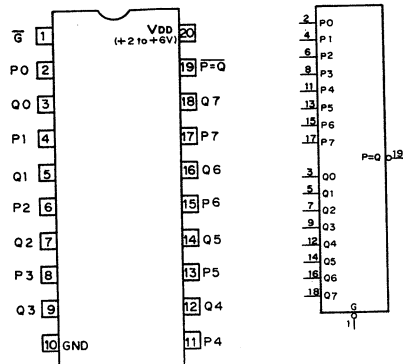


TC74HC4072AP (TOSHIBA)

C-MOS 4-INPUT OR GATE
- TOP VIEW -



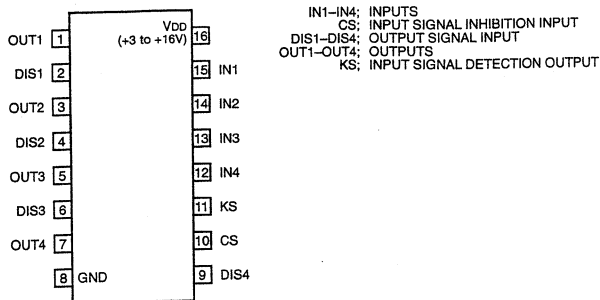
TC74HC688AF (TOSHIBA) FLAT PACKAGE

C-MOS 8-BIT EQUALITY DETECTOR
- TOP VIEW -

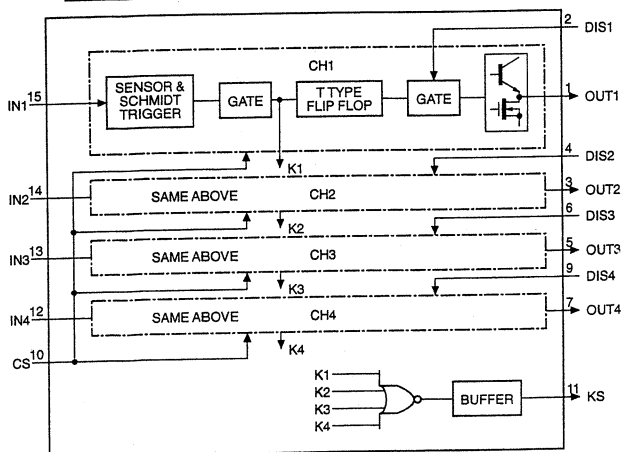
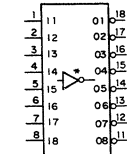
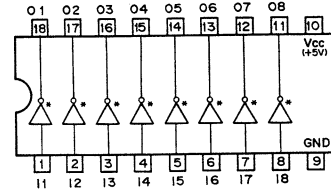
INPUTS		OUTPUT
P	Q	P=Q
0	0	1
0	1	0
1	0	0
1	1	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

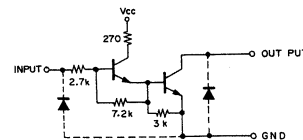
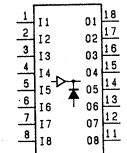
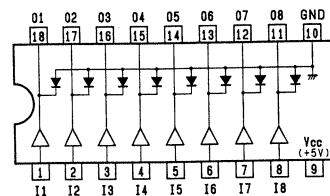
TC9130P (TOSHIBA)

C-MOS 4 CHANNEL CYCLIC TYPE TOUCH SWITCH
- TOP VIEW -

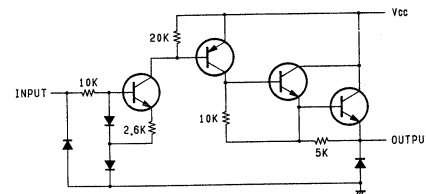
IN1-IN4; INPUTS
CS; INPUT SIGNAL INHIBITION INPUT
DIS1-DIS4; OUTPUT SIGNAL INPUT
OUT1-OUT4; OUTPUTS
KS; INPUT SIGNAL DETECTION OUTPUT

TD62381F (TOSHIBA) FLAT PACKAGE
TD62381P (TOSHIBA)OCTAL LOW SATURATION DRIVER
- TOP VIEW -

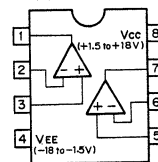
* ; OPEN COLLECTOR

TD62783AF (TOSHIBA) FLAT PACKAGE
TD62783F (TOSHIBA) FLAT PACKAGEOCTAL DRIVER
- TOP VIEW -

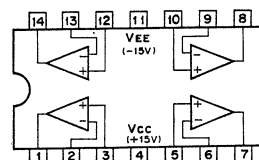
O1-O8 ; OUTPUTS
I1-I8 ; INPUTS



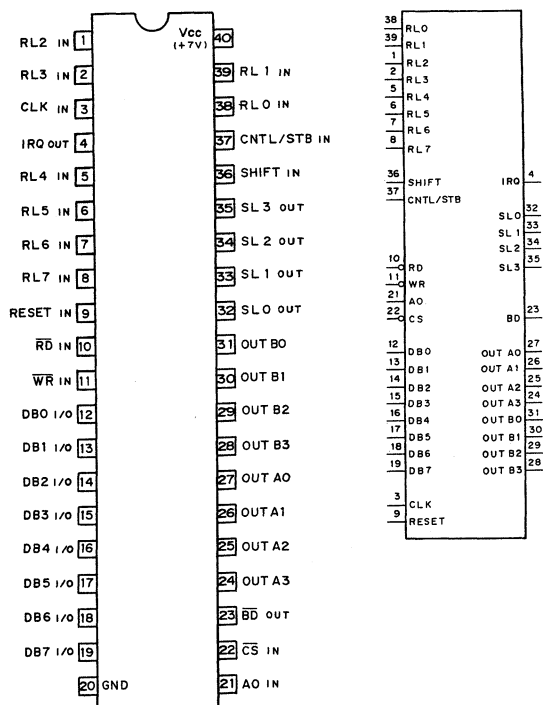
TL062CP (TI)
TL072CPS (TI)
TL082ACP (TI)
TL082CP (TI)

OPERATIONAL AMPLIFIER
(J FET-INPUT)
- TOP VIEW -

TL084CN (TI)
OPERATIONAL AMPLIFIER
(J FET-INPUT)
- TOP VIEW -

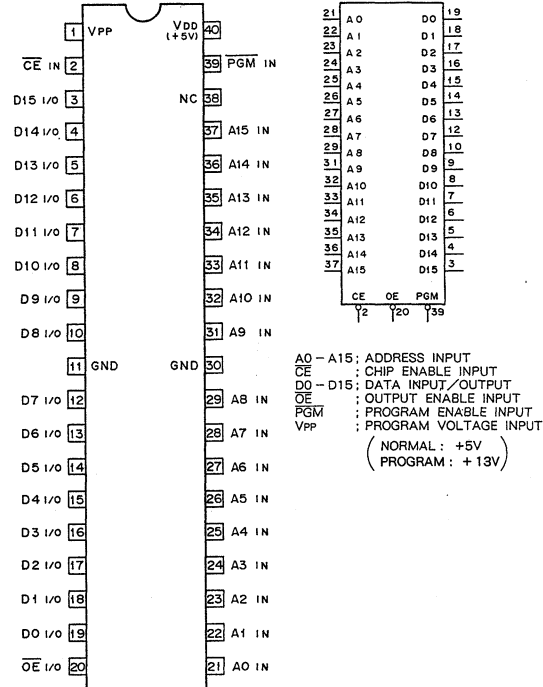


TMP82C79M-2 (TOSHIBA) FLAT PACKAGE
C-MOS PROGRAMABLE KEY-BOARD/DISPLAY INTERFACE DEVICE
- TOP VIEW -

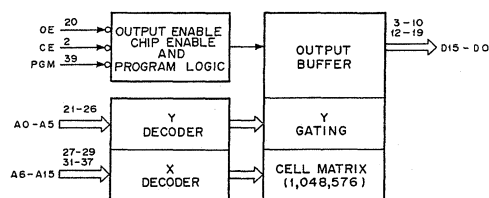


AO ; COMMAND/DATA CONTROL INPUT
BD ; DISPLAY BLANKING OUTPUT
CLK ; CLOCK INPUT
CNTL/STB ; CONTROL/STROBE INPUT
CS ; CHIP SELECT INPUT
DB0-DB7 ; DATA BUS INPUT/OUTPUT
IRQ ; INTERRUPT REQUEST OUTPUT
OUT A0-A3 ; 16x4 BIT EXPRESSION REFRESH REGISTER
OUT B0-B3 ;
RD ; READ STROBE INPUT
RESET ; RESET INPUT
RL0-RL7 ; RETURN LINE INPUT
SHIFT ; SHIFT INPUT
SLO-SL3 ; SCANNING LINE OUTPUT
WR ; WRITE STROBE INPUT

TMS27C210A-12JL (TI)
C-MOS 1M (64k x 16)-BIT ERASABLE PROM
- TOP VIEW -

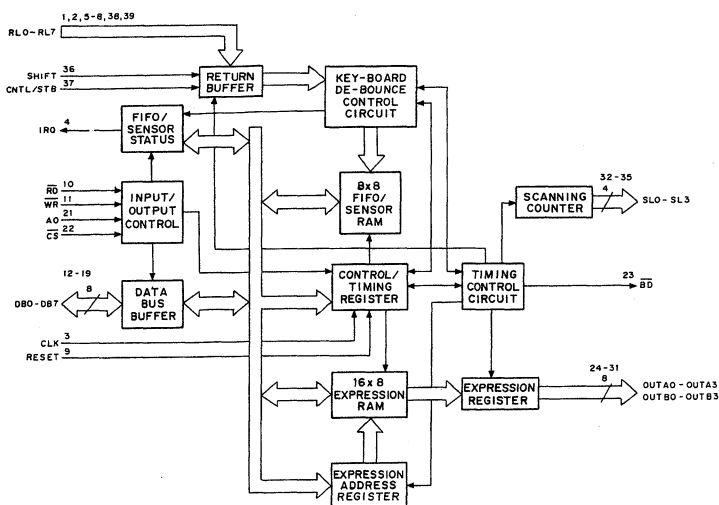


AO - A15 ; ADDRESS INPUT
CE ; CHIP ENABLE INPUT
DO - D15 ; DATA INPUT/OUTPUT
OE ; OUTPUT ENABLE INPUT
PGM ; PROGRAM ENABLE INPUT
VPP ; PROGRAM VOLTAGE INPUT
(NORMAL : +5V
PROGRAM : +13V)

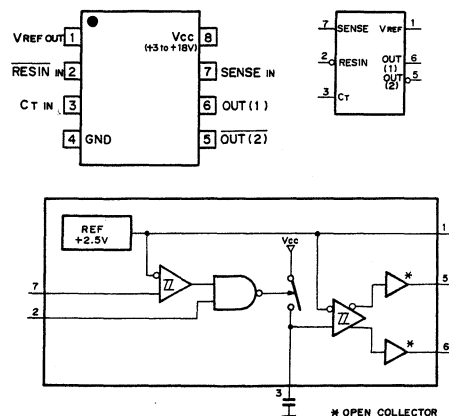


A0	A9	CE	OE	PGM	Vpp	FUNCTION
X	X	0	0	1	+5V	READ
X	X	0	1	1	+5V	OUTPUT DISABLE
X	X	1	X	X	+5V	STANDBY (TTL)
X	X	+5V	X	X	+5V	STANDBY (C-MOS)
X	X	0	X	0	+12.5V	PROGRAM
X	X	0	0	1	+12.5V	PROGRAM VERIFY
X	X	1	X	X	+12.5V	PROGRAM INHIBIT
0	1	0	0	1	+5V	MANUFACTURER CODE
1	1	0	0	1	+5V	DEVICE CODE

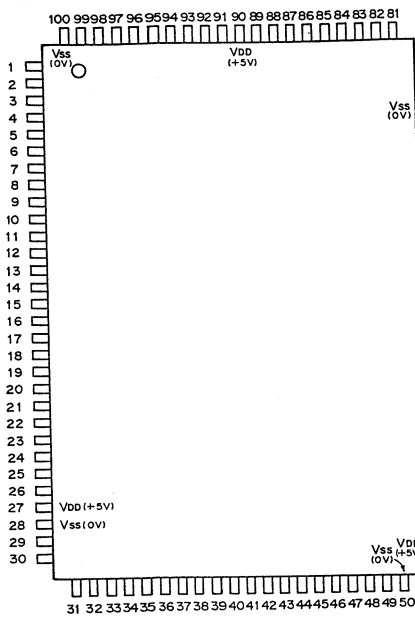
0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE
HZ : HIGH IMPEDANCE
NOTE: A1 - A8, A10 - A15 = LOW LEVEL



TL7705ACP (TI)
TL7705ACPS (TI) FLAT PACKAGE
POWER VOLTAGE SUPERVISOR
- TOP VIEW -

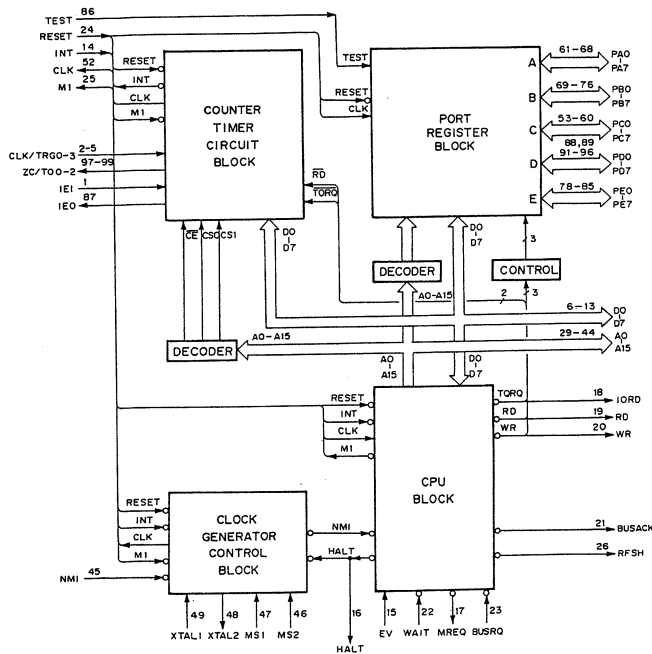


TMPZ84C011BF-6 (TOSHIBA)
C-MOS 8 BIT MICROPROCESSOR
- TOP VIEW -

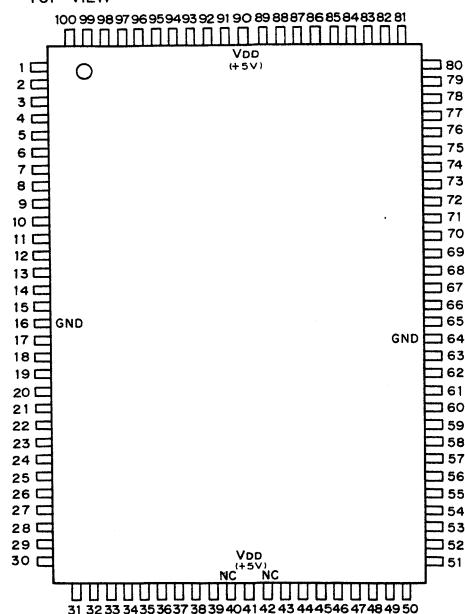


NO.	IN	OUT	SYMBOL	NO.	IN	OUT	SYMBOL
1			IEI	51			Vcc
2			CLK/TRG3	52			CLK
3			CLK/TRG2	53			PC7
4			CLK/TRG1	54			PC6
5			CLK/TRG0	55			PC5
6			D7	56			PC4
7			D6	57			PC3
8			D5	58			PC2
9			D4	59			PC1
10			D3	60			PC0
11			D2	61			PA7
12			D1	62			PA6
13			D0	63			PA5
14			INT	64			PA4
15			EV	65			PA3
16			HALT	66			PA2
17			MREQ	67			PA1
18			IORQ	68			PA0
19			RD	69			PB7
20			WR	70			PB6
21			BUSACK	71			PB5
22			WAIT	72			PB4
23			BUSREQ	73			PB3
24			RESET	74			PB2
25			MT	75			PB1
26			RFSH	76			PB0
27			Vcc	77			Vss
28			Vss	78			PE7
29			A0	79			PE6
30			A1	80			PE5
31			A2	81			PE4
32			A3	82			PE3
33			A4	83			PE2
34			A5	84			PE1
35			A6	85			PE0
36			A7	86			TEST
37			A8	87			IE0
38			A9	88			PD7
39			A10	89			PD6
40			A11	90			Vcc
41			A12	91			PD5
42			A13	92			PD4
43			A14	93			PD3
44			A15	94			PD2
45			NMI	95			PD1
46			MS2	96			PD0
47			MS1	97			ZC/T02
48			XTAL2	98			ZC/T01
49			XTAL1	99			ZC/T00
50			Vss	100			Vss

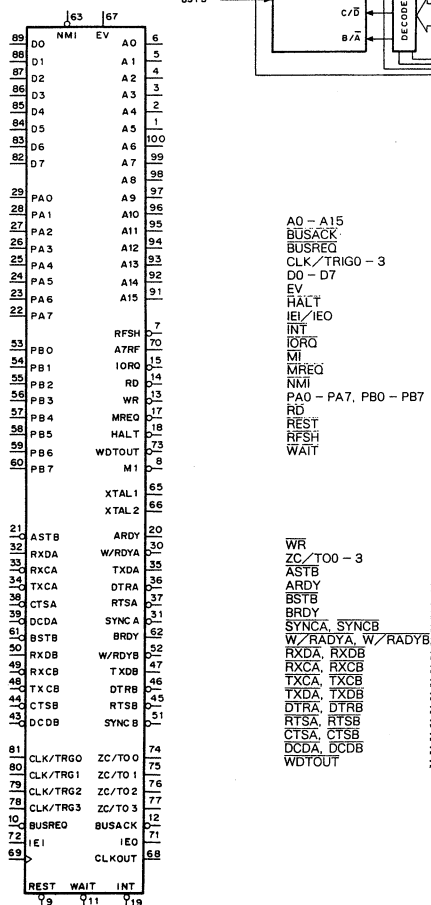
58	PA0	A0	29	AO-A15	3-STATE ADDRESS BUS OUTPUTS
57	PA1	A1	30	BUSACK	BUS ACKNOWLEDGE OUTPUT
56	PA2	A2	31	BUSREQ	BUS REQUEST INPUT
55	PA3	A3	32	CLK	CLOCK OUTPUT
54	PA4	A4	33	CLK/TRG0-3	EXTERNAL CLOCK / TIMER TRIGGER0-3 INPUTS
53	PA5	A5	34	D0-D7	3-STATE DATA BUS INPUTS/OUTPUTS
52	PA6	A6	35	EV	EVALUATOR INPUT
51	PA7	A7	36	HALT	HALT OUTPUT
50	PB0	A8	37	IEI/IE0	CTC INTERRUPT ENABLE INPUT/OUTPUT
49	PB1	A9	38	INT	MASKABLE INTERRUPT REQUEST INPUT
48	PB2	A10	39	IORQ	3-STATE I/O REQUEST OUTPUT
47	PB3	A11	40	M1	3-STATE MACHINE CYCLE 1 OUTPUT
46	PB4	A12	41	MREQ	3-STATE REQUEST OUTPUT
45	PB5	A13	42	MS1/MS2	MODE SELECT 1/2 INPUTS
44	PB6	A14	43	NMI	NON-MASKABLE INTERRUPT REQUEST INPUT
43	PB7	A15	44	PA0-PA7	3-STATE I/O PORT
42	PC0	DO	45	PB0-PB7	
41	PC1	D1	46	PC0-PC7	
40	PC2	D2	47	PDO-PD7	
39	PC3	D3	48	PE0-PE7	3-STATE READ OUTPUT
38	PC4	D4	49	RD	
37	PC5	D5	50	RESET	
36	PC6	D6	51	RFSH	
35	PC7	D7	52	TEST	TEST INPUT
34	PD0		53	WAIT	WAIT REQUEST INPUT
33	PD1		54	WR	3-STATE WRITE OUTPUT
32	PD2		55	ZC/T00-2	ZERO COUNT/TIME OUT 0-2 OUTPUTS
31	PD3		56		
30	PD4		57		
29	PD5		58		
28	PD6		59		
27	PD7		60		
26	PE0		61		
25	PE1		62		
24	PE2		63		
23	PE3		64		
22	PE4		65		
21	PE5		66		
20	PE6		67		
19	PE7		68		
18	PD0		69		
17	PD1		70		
16	PD2		71		
15	PD3		72		
14	PD4		73		
13	PD5		74		
12	PD6		75		
11	PD7		76		
10	PE0		77		
9	PE1		78		
8	PE2		79		
7	PE3		80		
6	PE4		81		
5	PE5		82		
4	PE6		83		
3	PE7		84		
2	PD0		85		
1	PD1		86		
0	PD2		87		
0	PD3		88		
0	PD4		89		
0	PD5		90		
0	PD6		91		
0	PD7		92		
0	PE0		93		
0	PE1		94		
0	PE2		95		
0	PE3		96		
0	PE4		97		
0	PE5		98		
0	PE6		99		
0	PE7		100		



TMP284C015BF-6 (TOSHIBA) FLAT PACKAGE
C-MOS 8-BIT MICROPROCESSOR
- TOP VIEW -



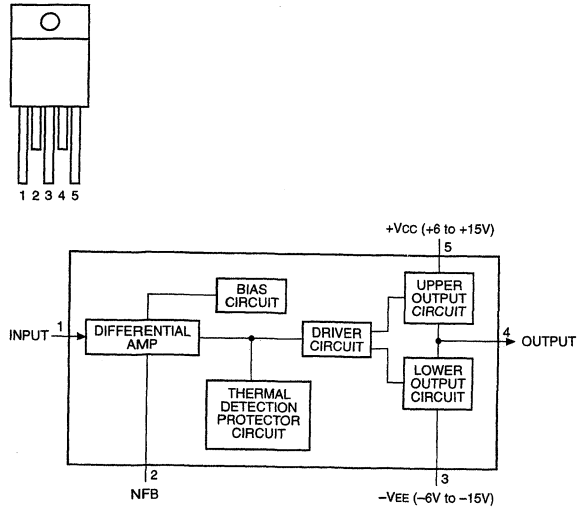
NO.	IN	OUT	SYMBOL	NO.	IN	OUT	SYMBOL
1		O	A5	51	O		SYNCB
2		O	A4	52	O		W/RDYB
3		O	A3	53	O		PB0
4		O	A2	54	O		PB1
5		O	A1	55	O		PB2
6		O	A0	56	O		PB3
7		O	RFSH	57	O		PB4
8		O	M1	58	O		PB5
9		O	REST	59	O		PB6
10		O	BUSREQ	60	O		PB7
11		O	WAIT	61	O		BSTB
12		O	BUSACK	62	O		BRDY
13		O	WR	63	O		NMI
14		O	RD	64	O		GND
15		O	IORQ	65	O		XTAL1
16		O	GND	66	O		XTAL2
17		O	MREQ	67	O		EV
18		O	HALT	68	O		CLKOUT
19		O	INT	69	O		CLKIN
20		O	ARDY	70	O		A7RF
21		O	ASTB	71	O		IEO
22		O	PA7	72	O		IEI
23		O	PA6	73	O		WDTOUT
24		O	PA5	74	O		ZC/TO0
25		O	PA4	75	O		ZC/TO1
26		O	PA3	76	O		ZC/TO2
27		O	PA2	77	O		ZC/TO3
28		O	PA1	78	O		CLK/TRG3
29		O	PA0	79	O		CLK/TRG2
30		O	W/RDYA	80	O		CLK/TRG1
31		O	SYNCA	81	O		D7
32		O	RXDA	82	O		D6
33		O	RXCA	83	O		D5
34		O	TXCA	84	O		D4
35		O	TXDA	85	O		D3
36		O	DTRA	86	O		D2
37		O	RTSA	87	O		D1
38		O	CTSA	88	O		D0
39		O	DCDA	89	O		VDD
40		O	NC	90	O		A15
41		O	VDD	91	O		A14
42		O	NC	92	O		A13
43		O	DCDB	93	O		A12
44		O	CTSB	94	O		A11
45		O	RTSB	95	O		A10
46		O	DTRB	96	O		A9
47		O	TXDB	97	O		A8
48		O	TXCB	98	O		A7
49		O	RXCB	99	O		A6
50		O	RXDB	100	O		A6



- A0 - A15 : 3-STATE ADDRESS BUS OUTPUTS
- BUSACK : BUS ACKNOWLEDGE OUTPUT
- BUSREQ : BUS REQUEST INPUT
- CLK/TRG0 - 3 : EXTERNAL CLOCK/TIMER TRIGGER 0-3 INPUTS
- DO - D7 : 3-STATE DATA BUS INPUTS/OUTPUTS
- EV : EVALUATOR INPUT
- HALT : HALT OUTPUT
- IEI/IEO : MASKABLE INTERRUPT REQUEST/INPUT
- INT : 3-STATE I/O REQUEST OUTPUT
- IORQ : 3-STATE MACHINE CYCLE 1 OUTPUT
- M1 : 3-STATE MEMORY REQUEST OUTPUT
- MREQ : NON-MASKABLE INTERRUPT REQUEST INPUT
- PA0 - PA7, PB0 - PB7 : 3-STATE I/O PORT
- RD : 3-STATE READ OUTPUT
- REST : RESET INPUT
- RFSH : REFRESH OUTPUT
- WAIT : WAIT REQUEST INPUT
- WR : 3-STATE WRITE OUTPUT
- ZC/TO0 - 3 : ZERO COUNT/TIME OUT 0-3 OUTPUTS
- ASTB : PORT A STROBE PULSE INPUT
- ARDY : REGISTER A READY OUTPUT
- BSTB : PORT B STROBE PULSE INPUT
- BRDY : REGISTER B READY OUTPUT
- SYNCA, SYNCB : SYNC INPUT/OUTPUT
- W/RDYA, W/RDYB : WAIT/READY OUTPUT
- RXDA, RXDB : SERIAL DATA INPUT
- RXCA, RXCB : RECEIVE CLOCK INPUT
- TXCA, TXCB : TRANSMISSION CLOCK INPUT
- TXDA, TXDB : SERIAL DATA OUTPUT
- DTRA, DTRB : DATA TERMINAL READY OUTPUT
- RTSA, RTSB : TRANSMISSION REQUEST OUTPUT
- CTSA, CTSB : TRANSMISSION ENABLE INPUT
- DCDA, DCDB : DATA CARRIER DETECT OUTPUT
- WDTOUT : WATCH DOG TIMER OUTPUT

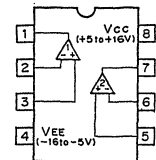
UPC1238H (NEC)

AUDIO POWER AMPLIFIER
- FRONT VIEW -



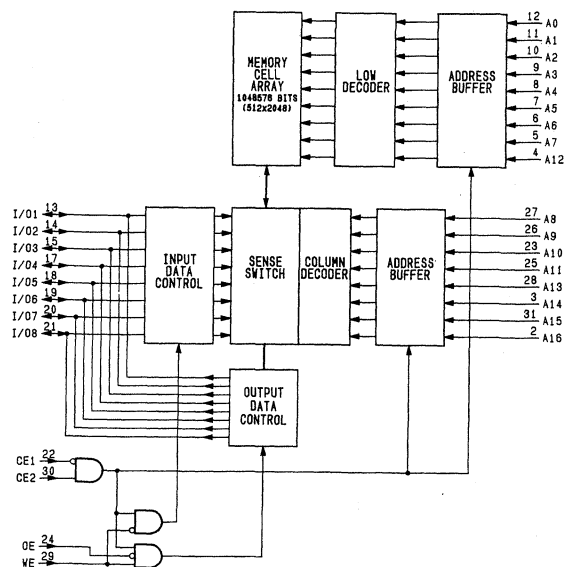
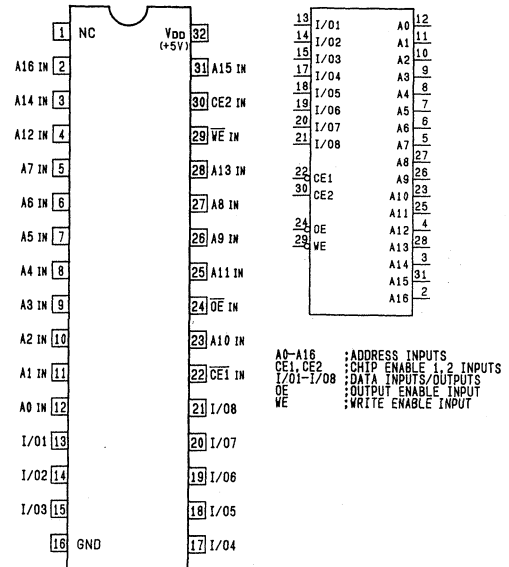
UPC814C (NEC)

TTL-DUAL OPERATIONAL AMPLIFIER
- TOP VIEW -



CXK581000AM-70LL (SONY) FLAT PACKAGE
UPD431000AGW-10LL (NEC) FLAT PACKAGE
UPD431000AGW-70L (NEC) FLAT PACKAGE
UPD431000AGW-70LL (NEC) FLAT PACKAGE

C-MOS 1M (128K x 8)-BIT STATIC RAM
- TOP VIEW -



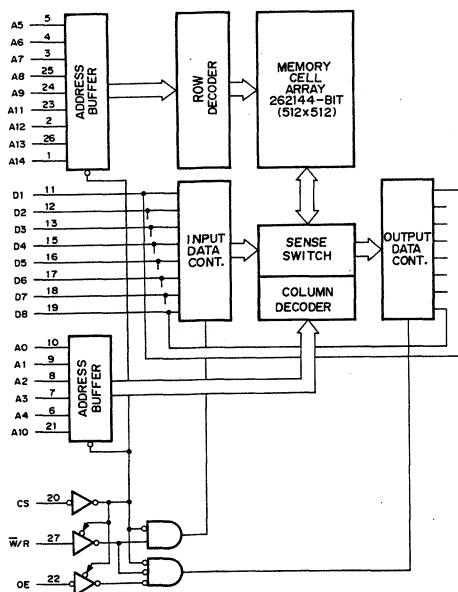
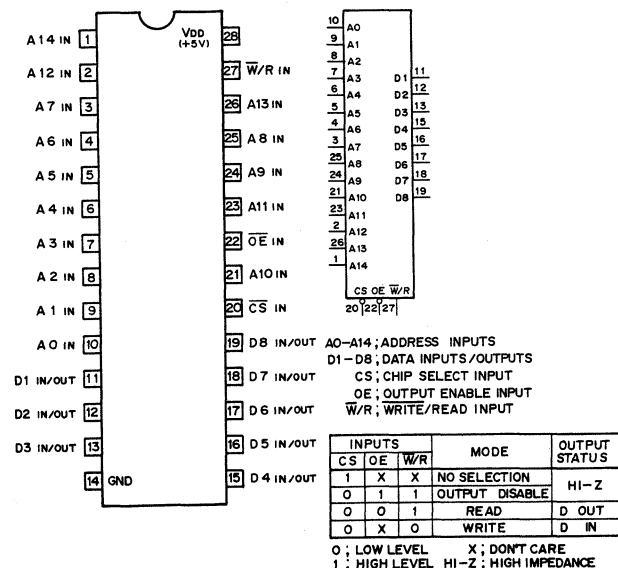
MODE :

CE1	CE2	OE	WE	MODE	DATA OUTPUT
1	X	X	X	NO SELECTION (POWER DOWN)	HI-Z
X	0	X	X	OUTPUT DISABLE	HI-Z
0	1	1	1	READ	D OUT
0	1	X	0	WRITE	D IN

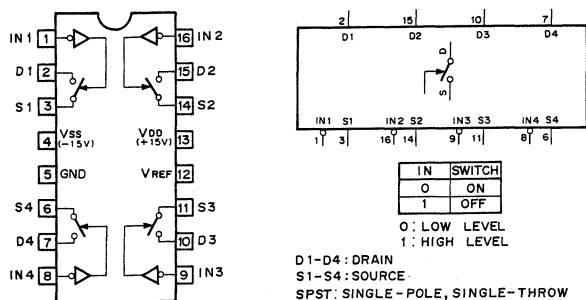
0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE
HI-Z: HIGH IMPEDANCE

UPD43256AGU-10L (NEC) FLAT PACKAGE
UPD43256AGU-10LL (NEC)
UPD43256AGU-12L (NEC) FLAT PACKAGE

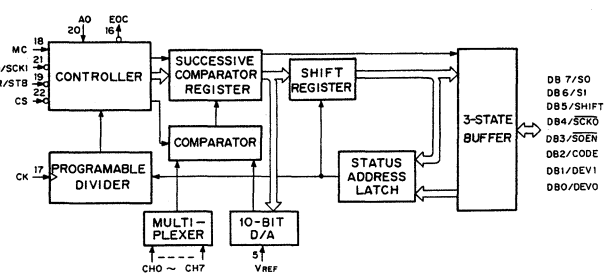
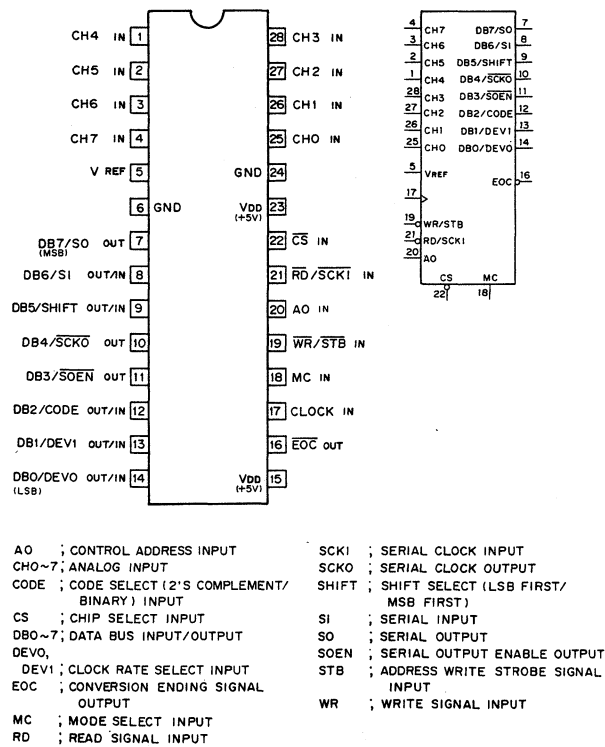
C-MOS 262144-BIT (32768 × 8) STATIC RAM
- TOP VIEW -



UPD5201C (NEC)
C-MOS QUAD SPST ANALOG SWITCH
- TOP VIEW -



UPD7004C (NEC)
C-MOS 10-BIT SUCCESSIVE COMPARATOR TYPE A/D CONVERTER
- TOP VIEW -



MC	MODE
0	SERIAL
1	PARALLEL

CS	WR	RD	AO	MODE
1	X	X	X	HIGH IMPEDANCE
0	1	1	X	HIGH IMPEDANCE
0	0	1	0	#1 ANALOG CHANNEL SELECT
0	0	1	1	#2 CODE SELECT/ #3 CLOCK RATE SELECT
0	1	0	0	#4 LOW-BYTE DATA OUTPUT
0	1	0	1	#4 HIGH-BYTE DATA OUTPUT
0	0	0	X	INHIBIT

#1 ANALOG CHANNEL	SEL2	SEL1	SEL0	MPX CHAN.
0	0	0	0	CH0
0	0	0	1	CH1
0	0	1	0	CH2
0	0	1	1	CH3
1	0	0	0	CH4
1	0	0	1	CH5
1	1	0	0	CH6
1	1	1	0	CH7

0; LOW LEVEL	X: DON'T CARE	1
1; HIGH LEVEL		

#2 CODE SELECT
CODE CODE SELECT
0 BINARY DATA
1 2'S COMPLEMENT DATA

#3 CLOCK RATE SELECT
DEV1 DEV0 CLOCK RATE
0 0 1
0 1 1/2
1 0 1/4
1 1 1/8

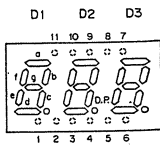
#4 LOW/HIGH-BYTE DATA
DB7 DB6 DB5 DB4 DB3 DB2 DB1 DB0
HIGH-BYTE MSB 2ND 3RD 4TH 5TH 6TH 7TH 8TH
LOW-BYTE 9TH 0 0 0 0 0 0 0 0

— TOP VIEW — KV1460



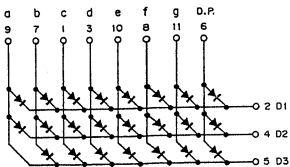
GL3E306; YELLOWISH GREEN

TOP VIEW (SCALE 2/1)



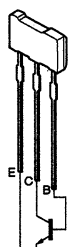
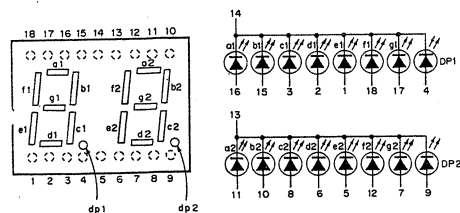
PIN. CONNECTIONS

PIN No.	FUNCTION
1	ANODE c
2	CATHODE D1
3	ANODE d
4	CATHODE D2
5	CATHODE D3
6	ANODE D.P.
7	ANODE b
8	ANODE f
9	ANODE a
10	ANODE e
11	ANODE g
—	—



GL7E202; YELLOWISH GREEN

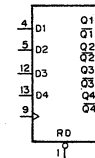
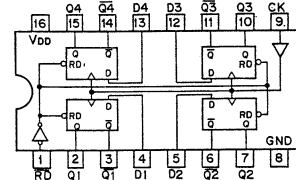
— TOP VIEW —



2SD1507M

74AC175SJ (NS) FLAT PACKAGE

C-MOS QUAD D-TYPE FLIP-FLOPS WITH RESET
— TOP VIEW —



RD	CK	D	Q	Q̄
0	X	X	0	1
1	1	1	1	0
1	0	0	0	1
1	0	X	Q0	Q0

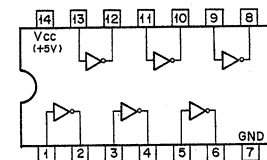
0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE
Q0 : NO CHANGE
Q̄0 : NO CHANGE

NOTE :

TYPE	VDD
ACT TYPE	+2 to +5.5 V
74ACT175 TYPE	+4.5V to 5.5 V
OTHER TYPES	+2 to +6 V

74F04SJ (NS) FLAT PACKAGE

TTL INVERTER
— TOP VIEW —



$$A \rightarrow Y = A \rightarrow Y$$

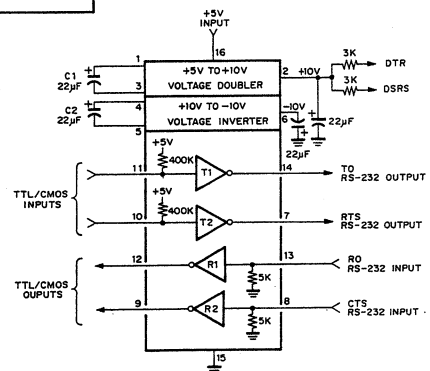
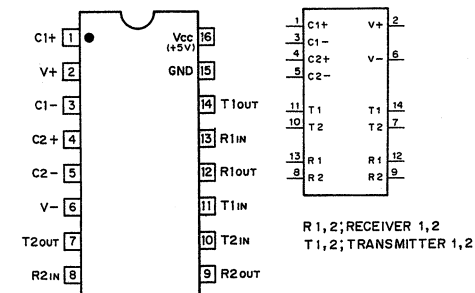
$$Y = \bar{A}$$

A	Y
0	1
1	0

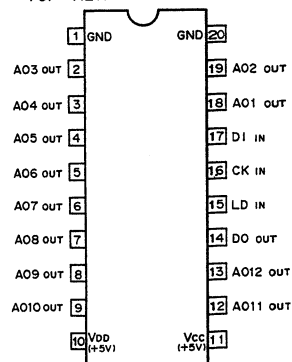
0: LOW LEVEL
1: HIGH LEVEL

MAX232CWE (MAXIM)

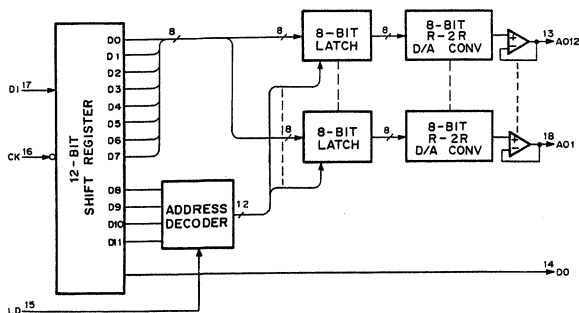
RS-232 TRANSMITTER/RECEIVER
— TOP VIEW —



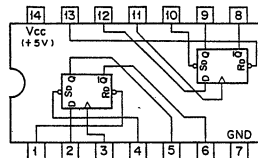
MB88346BPF (FUJITSU) FLAT PACKAGE
C-MOS 8-BIT D/A CONVERTER
- TOP VIEW -



A01 - A012 : 8-BIT D/A OUTPUTS
CK : CLOCK INPUT
D1 : SERIAL DATA INPUT
DO : DATA OUTPUT
LD : DATA LOAD CONTROL INPUT (H: LOAD)

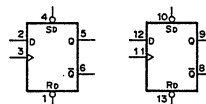


MC74F74M (MOTOROLA) FLAT PACKAGE
TTL D-TYPE FLIP FLOP WITH DIRECT SET/RESET
- TOP VIEW -

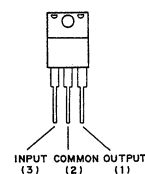


INPUTS	OUTPUTS
S _D R _D CK D	Q _{n+1} Q _n T ₁
0 1 X X	1 0
1 0 X X	0 1
0 0 X X	1* 1*
1 1 1 1	1 0
1 1 0 0	0 1
1 1 0 X	Q _n Q _n

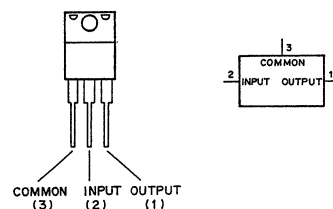
0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
1*: NONSTABLE



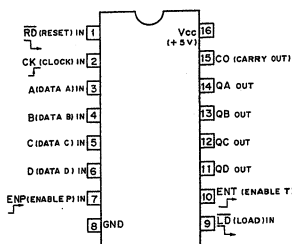
NJM7815FA (JRC) + 15V (1A)
POSITIVE VOLTAGE REGULATOR
- FRONT VIEW -



NJM7915FA (JRC) - 15V (1A)
NEGATIVE VOLTAGE REGULATOR
- FRONT VIEW -

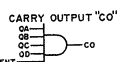


MC74F163AM (MOTOROLA) FLAT PACKAGE
TTL RESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
- TOP VIEW -



MODE SELECTION				
R _S	LD	ENT	ENT	MODE
0	X	X	X	RESET (SYNCHRONOUS)
1	0	X	X	PRESET (SYNCHRONOUS)
1	1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

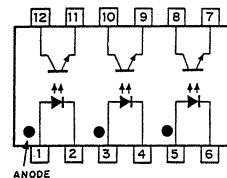
0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE



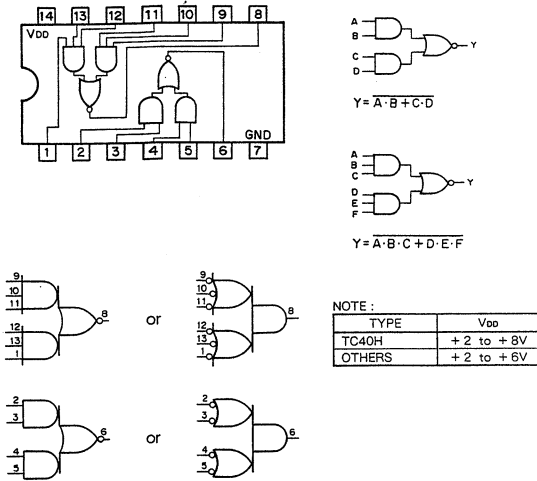
CO IS HIGH WHEN ENT INPUT IS HIGH AND COUNT IS '15'.

COUNT SEQUENCE				
COUNT	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

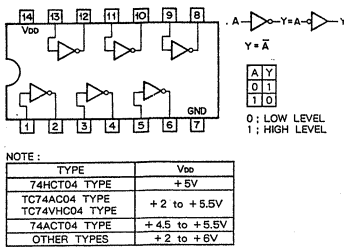
PC837 (SHARP)
PHOTOCOUNTER
- TOP VIEW -



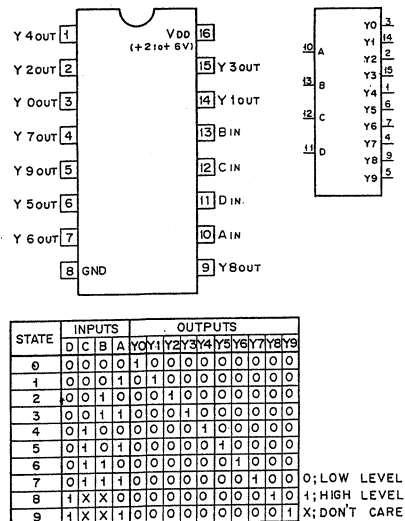
SN74HC51NS (TI) FLAT PACKAGE
C-MOS DUAL AND/OR INVERT GATE
- TOP VIEW -



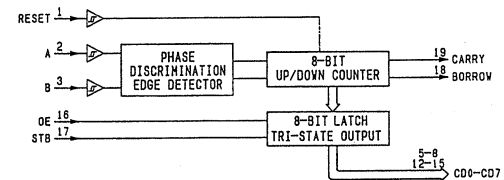
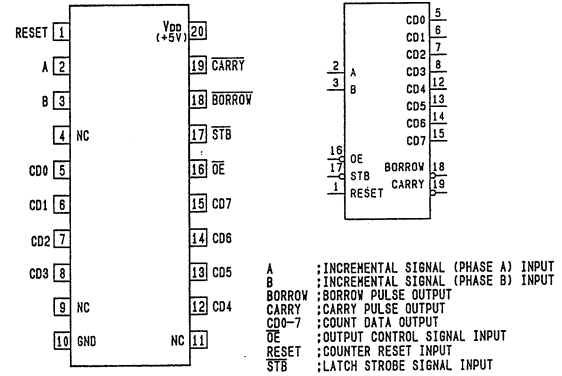
TC74AC04F (TOSHIBA) FLAT PACKAGE
C-MOS HEX INVERTERS
- TOP VIEW -



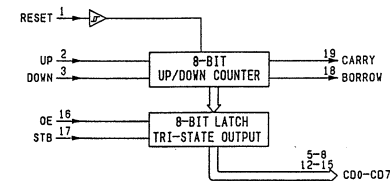
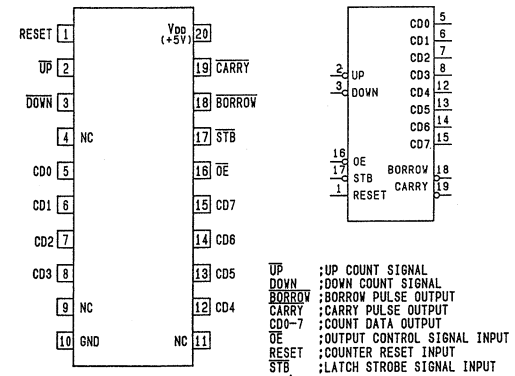
TC74HC4028F (TOSHIBA) FLAT PACKAGE
C-MOS BCD TO DECIMAL DECODER
- TOP VIEW -



UPD4702G (NEC)
C-MOS INCREMENTAL ENCODER 8BIT UP DOWN COUNTER
- TOP VIEW -



UPD4704G (NEC)
C-MOS INCREMENTAL ENCODER 8BIT UP DOWN COUNTER FOR EXTENSION
- TOP VIEW -



SECTION 6

SPARE PARTS

6-1. NOTES ON REPAIR PARTS

(1) Safety Related Components Warning

Components marked with Δ on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose part numbers appear in this manual or in service bulletins and service manual supplement published by Sony.

(2) Standardization of Parts

Repair parts supplied from Sony Parts Center may not be always identical with the part which actually in use due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts". This manual's exploded views and electrical spare parts list are indicating the parts number of "the standardization genuine parts at present".

(3) Stocked of Parts

The parts marked with "S" in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Order for parts marked with "O" will be processed, but allow for additional delivery time.

(4) Units of Capacitors, Inductors, and Resistors

The following units are omitted in the schematic diagrams, exploded views, and electrical parts lists unless otherwise specified;

Capacitor : μF
Inductor : μH
Resistor : Ω

(1) 安全重要部品

回路図、分解図、電気部品表中、 Δ 印の部品は安全性を維持するために重要な部品です。従ってこれらの部品を交換するときは必ず指定の部品と交換してください。

(2) 部品の共通化

ソニーから供給される部品は、セットに実装されているものと異なることがあります。これは部品の共通化、改良等によるものです。分解図や電気部品表中には現時点での共通化された部品が記載されています。

(3) 部品の在庫

リスト中、SP欄が"S"で示されている部品は常時在庫しています。SP欄が"O"で示されている部品は交換頻度が低い部品ですので、一般には在庫しません。そのため、納期が長くなることがあります。

(4) コンデンサ、インダクター、抵抗の単位

回路図、分解図、電気部品表中、特に明記したものを除き、下記の単位は省略されています。

コンデンサ : μF
インダクター : μH
抵抗 : Ω

6-2. EXPLODED VIEWS

DMX-B4008/B4016 CONSOLE

No.	Part No.	SP Description
1	3-182-970-02	o COVER (CH), BOTTOM FRONT
2	3-182-971-03	o COVER (MAS), BOTTOM FRONT
3	3-182-972-02	o RAIL (L), CH
4	3-182-973-02	o RAIL (M), CH
5	3-183-015-03	o PANEL, HA BLIND
6	3-183-016-03	o PANEL, LOCATER BLIND
7	3-183-019-01	o PLATE, SIDE (R), ORNAMENTAL
8	3-183-020-01	o PLATE, SIDE (L), ORNAMENTAL
9	3-183-025-02	o RAIL (M), MAS
10	3-183-026-02	o RAIL (L), MAS

DMBK-4005/DMBK-4006 (OPTION)

51	X-3167-354-1	o SLEEVE (R) ASSY
52	X-3167-355-1	o SLEEVE (L) ASSY
53	X-3167-356-1	o PAD (MAS) ASSY
54	X-3167-357-1	o PAD (CH) ASSY
55	X-3167-357-1	o PAD (CH) ASSY (DMBK-4006 only)

DMBK-4012 (OPTION)

61	A-8276-807-A	o MOUNTED CIRCUIT BOARD, VR-163
62	1-649-759-11	o PRINTED CIRCUIT BOARD, SW-602
63	3-180-426-01	s KNOB CAP (ab 13)
64	3-180-434-01	s KNOB (ab 13)
65	3-182-957-01	s WASHER, VOLUME
66	3-183-090-02	o PANEL, HA
67	3-184-241-01	o FILM, MIC ON
68	4-888-884-21	s CAP, KNOB
69	4-888-885-31	s KNOB
70	4-928-315-01	s KEY TOP
71	4-937-336-51	o HOLDER, LED

HA PANEL ASSY
(DMBK-4012)

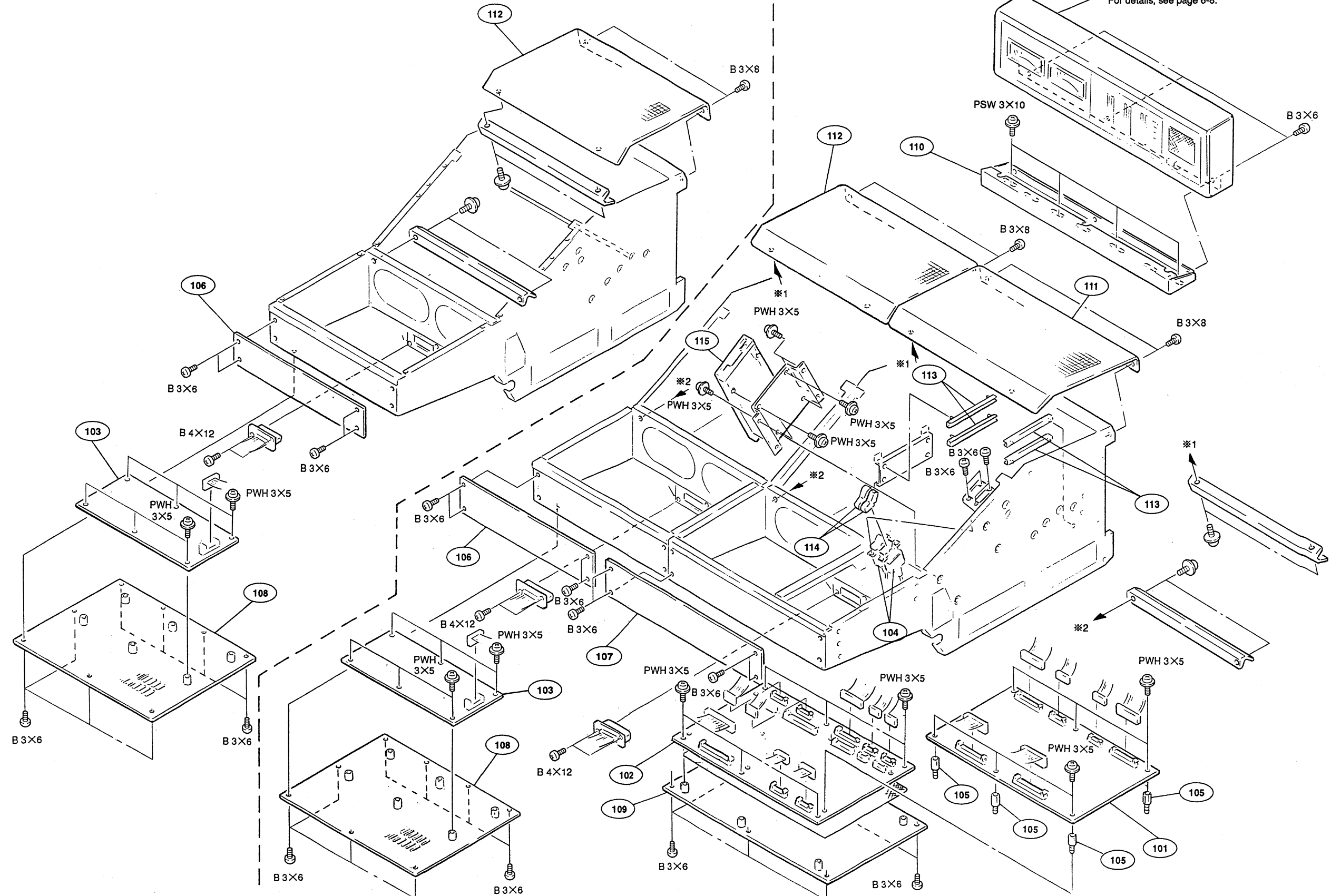


(2) CHASSIS BLOCK

DMX-B4016

DMX-B4008

METER UNIT
For details, see page 6-8.



No.	Part No.	SP Description
101	A-8275-415-A	o MOUNTED CIRCUIT BOARD, CPU-145 (FOR DMX-B4008)
	A-8275-630-A	o MOUNTED CIRCUIT BOARD, CPU-145A (FOR DMX-B4016)
102	A-8275-416-A	o MOUNTED CIRCUIT BOARD, IF-413
103	A-8275-421-A	o MOUNTED CIRCUIT BOARD, PS-312
104	1-570-117-41	s SWITCH, ROCKER (AC POWER)
105	2-375-791-01	o SUPPORT
106	3-182-974-01	o ORNAMENTAL FRONT PLATE (CH)
107	3-183-018-01	o ORNAMENTAL FRONT PLATE (MAS)
108	3-183-021-01	o PANEL (CH), BOTTOM
109	3-183-022-03	o PANEL (MAS), BOTTOM
110	3-183-040-01	o BRACKET, A METER
111	3-183-041-03	o COVER (MAS), TOP
112	3-183-042-03	o COVER (CH), TOP
113	3-673-676-21	o RAIL, PC BOARD GUIDE
114	3-688-814-11	s CAP, SWITCH
115	8-422-940-01	s DRIVE, FLOPPY DISK MPF420-2/120
116	3-184-699-01	o GASKET (300284)

(3) REAR PANEL BLOCK, DMBK-4012 (OPTION)

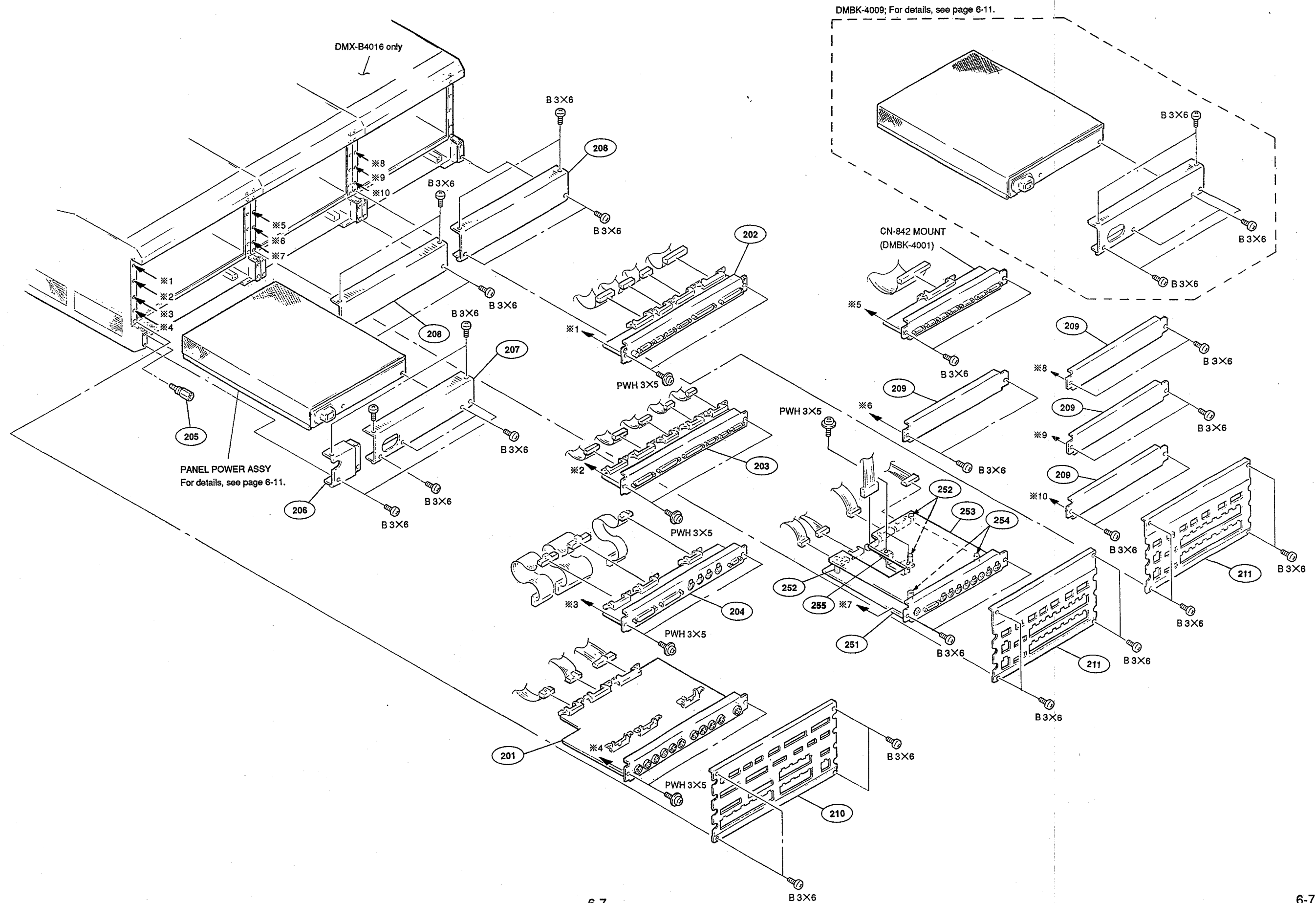
No.	Part No.	SP Description
201	A-8275-417-A	o MOUNTED CIRCUIT BOARD, MOA-7A (for UC/EK)
	A-8275-418-A	o MOUNTED CIRCUIT BOARD, MOA-7B (for J)
202	A-8276-796-A	o MOUNTED CIRCUIT BOARD, CN-838
203	A-8276-797-A	o MOUNTED CIRCUIT BOARD, CN-839
204	A-8276-798-A	o MOUNTED CIRCUIT BOARD, CN-840A (for UC/EK)
	A-8276-799-A	o MOUNTED CIRCUIT BOARD, CN-840B (for J)
205	X-4801-204-0	o TERMINAL ASSY
206	3-182-976-01	o PANEL, PW SUB
207	3-182-997-03	o PANEL, PW
208	3-183-014-03	o PANEL (CH), PW/BLANK
209	3-183-017-01	o PANEL, CN BLIND
210	3-183-023-02	o PANEL (MAS), REAR
211	3-183-024-03	o PANEL (CH), REAR (for DMX-B4008)
	3-183-024-12	o PANEL (CH), REAR (for DMX-B4016)

DMBK-4012 (OPTION)

251	A-8275-432-A	o MOUNTED CIRCUIT BOARD, AD-100
252	2-280-622-71	o SUPPORT (M3), HEXAGON
253	3-183-089-02	o PLATE, SHIELD, PC BOARD
254	4-879-917-00	o STAY, PC BOARD
255	3-184-855-01	o COOLING PLATE

REAR PANEL BLOCK, DMBK-4012 (OPTION)
DMX-B4008/B4016 CONSOLE

REAR PANEL BLOCK, DMBK-4012 (OPTION)
DMX-B4008/B4016 CONSOLE

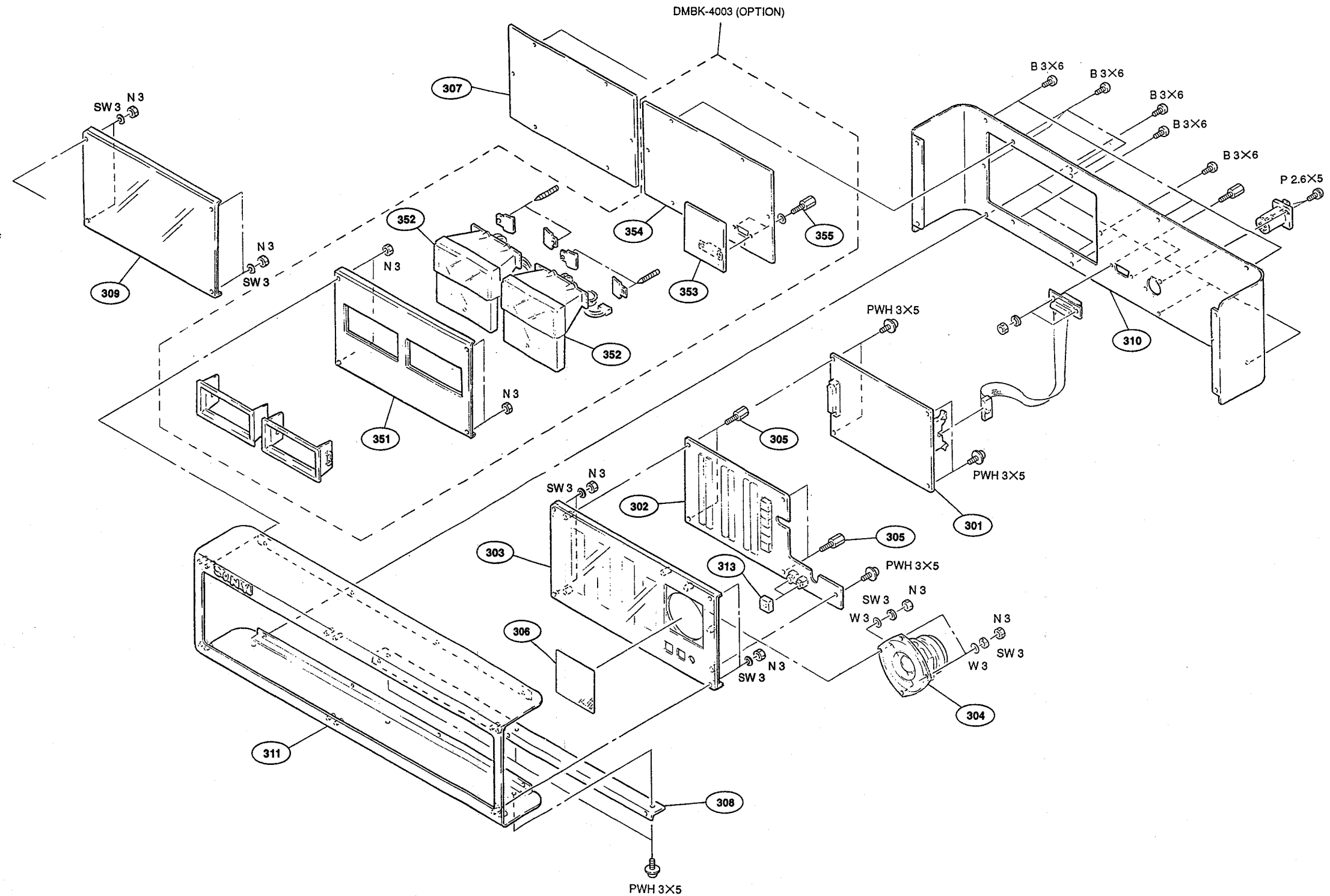


(4) METER UNIT, DMBK-4003 (OPTION)

No.	Part No.	SP Description
301	A-8275-422-A	o MOUNTED CIRCUIT BOARD, IF-421
302	A-8275-423-A	o MOUNTED CIRCUIT BOARD, MT-88
303	X-3167-429-1	o PANEL ASSY, MT-88(A)
304	1-503-291-00	s SPEAKER
305	3-180-281-01	o SUPPORT, PCB
306	3-182-954-01	o SPEAKER, GRILLE
307	3-182-981-01	o PLATE, BLIND
308	3-182-982-01	o BRACKET, B METER
309	3-183-003-03	o TOP SHEET BLANK
310	3-183-046-02	o METER, REAR COVER
311	X-3167-467-1	o PANEL ASSY, METER
313	4-927-278-01	s KEY TOP

DMBK-4003 (OPTION)

351	X-3167-409-1	o PANEL ASSY, VU METER
352	1-520-516-11	s METER, VU
353	1-649-774-11	o PRINTED CIRCUIT BOARD, MT-94
354	3-182-985-01	o VU METER, REAR PANEL
355	4-612-636-01	s SCREW, CONNECTOR FITTING

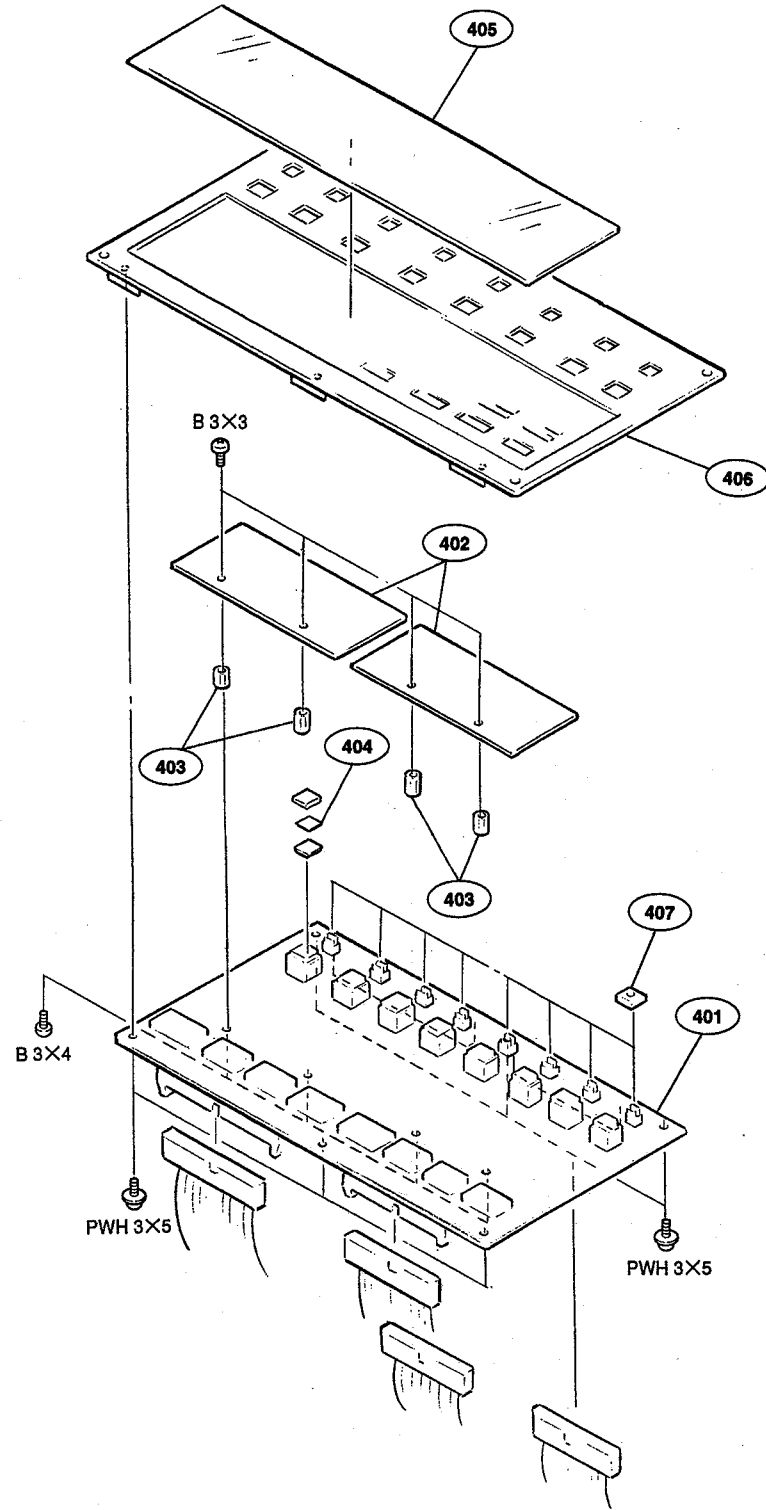


CHANNEL PANEL ASSY
DMX-B4008/B4016 CONSOLE

FADER PANEL ASSY
DMX-B4008/B4016 CONSOLE

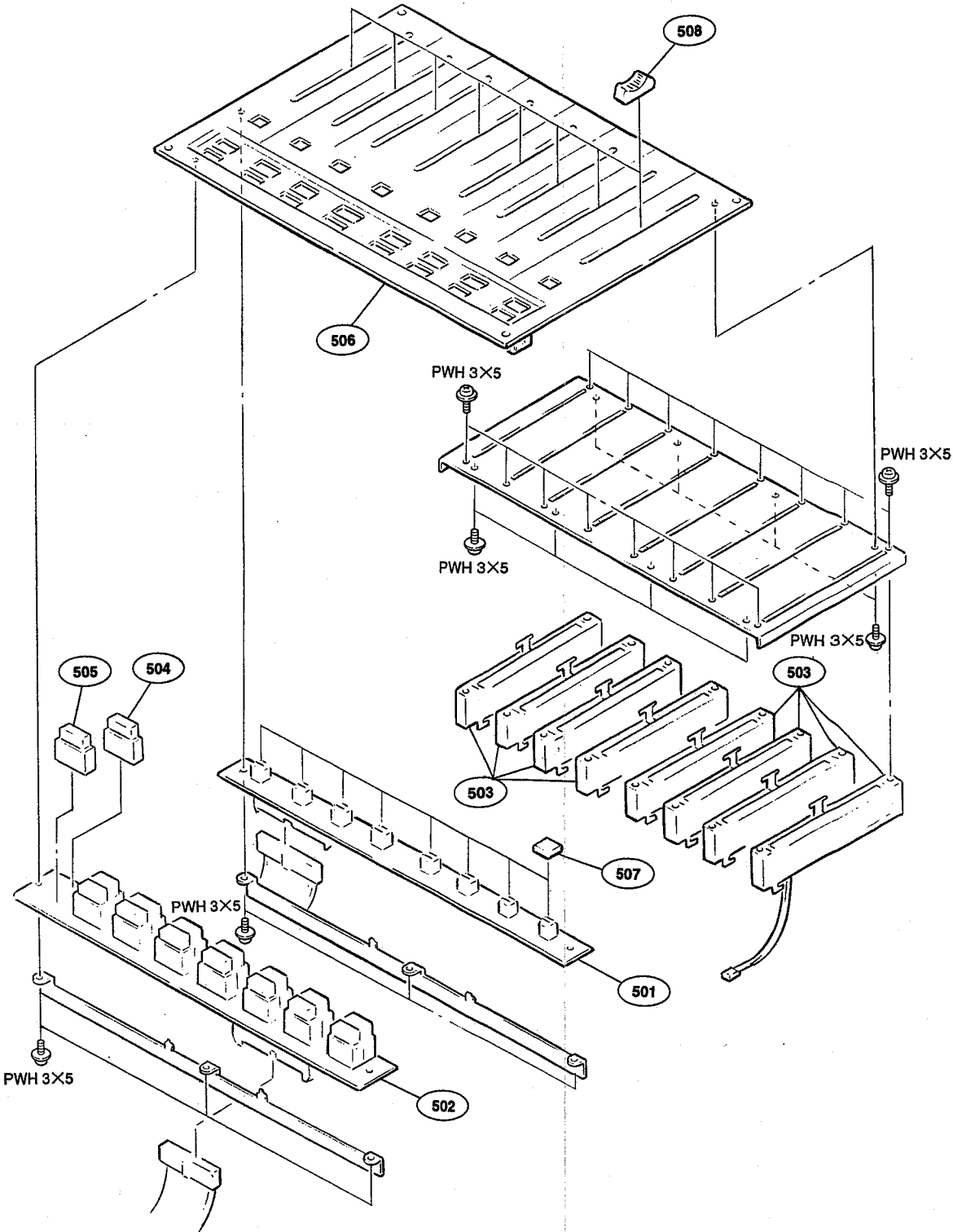
(5) CHANNEL PANEL ASSY

No.	Part No.	SP Description
401	A-8275-405-A	o MOUNTED CIRCUIT BOARD, KY-225
402	A-8275-406-A	o MOUNTED CIRCUIT BOARD, LED-156
403	2-280-622-01	o SUPPORT (M3), HEXAGON
404	3-182-953-02	o FILM, MUTE
405	3-182-994-03	o LENS, LED
406	3-183-050-02	o PANEL, CHANNEL INDICATION
407	4-927-278-01	s KEY TOP



(6) FADER PANEL ASSY

No.	Part No.	SP Description
501	A-8276-790-A	o MOUNTED CIRCUIT BOARD, SW-604
502	A-8276-791-A	o MOUNTED CIRCUIT BOARD, SW-605
503	1-241-009-11	s RES, VAR, SLIDE 10K
504	1-572-609-11	s SWITCH, PUSH (ILLUMINATION)
505	1-572-609-21	s SWITCH, PUSH (ILLUMINATION)
506	3-183-048-02	o PANEL, FADER
507	4-927-278-01	s KEY TOP
508	4-937-102-01	s KNOB, FADER

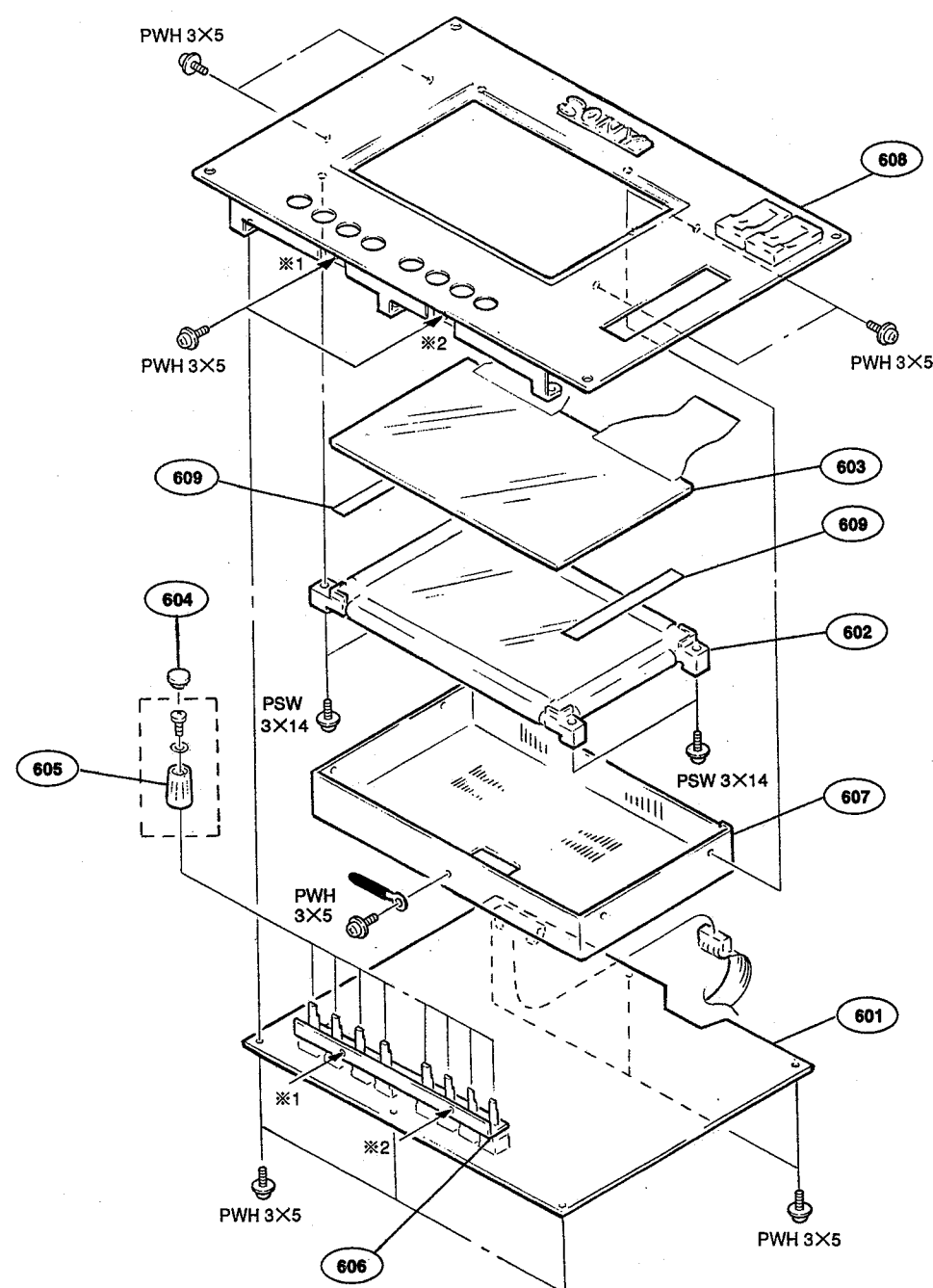


TOUCH PANEL ASSY
DMX-B4008/B4016 CONSOLE

MONITOR PANEL ASSY
DMX-B4008/B4016 CONSOLE

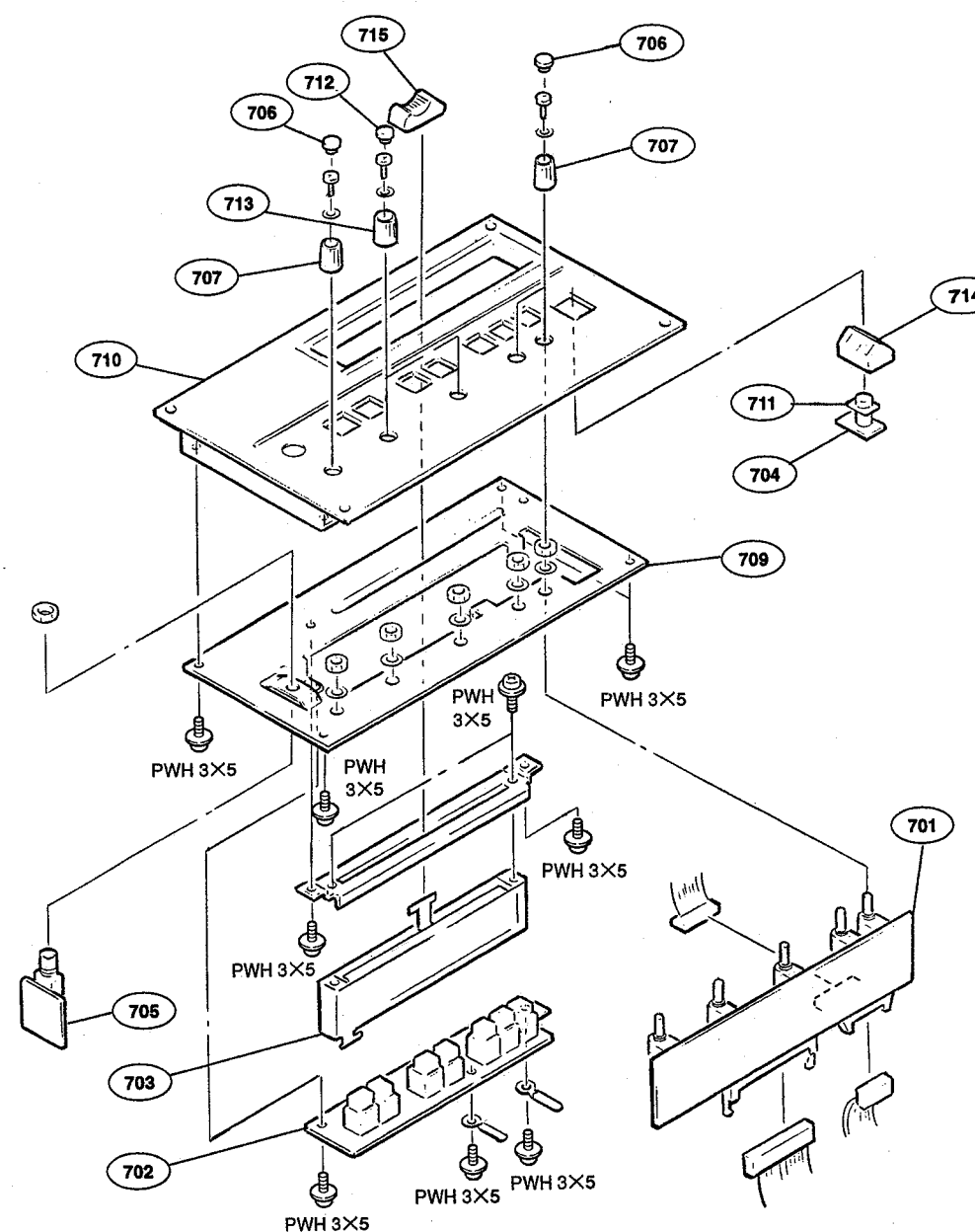
(7) TOUCH PANEL ASSY

No.	Part No.	SP Description
601	A-8275-414-A	o MOUNTED CIRCUIT BOARD, IF-414 (FOR DMX-B4008)
	A-8275-629-A	o MOUNTED CIRCUIT BOARD, IF-414A (FOR DMX-B4016)
602	1-466-954-11	s DISPLAY UNIT, EL
603	1-692-812-11	s PANEL, TOUCH
604	3-182-959-01	s CAP, DIA. 13
605	3-182-960-01	s KNOB, DIA. 13
606	3-182-987-01	o BRACKET, IF-414 SW
607	3-183-012-01	o COVER, DISPLAY
608	X-3167-433-2	o PANEL ASSY, DISPLAY
609	3-831-441-XX	s TAPE



(8) MONITOR PANEL ASSY

No.	Part No.	SP Description
701	A-8276-792-A	o MOUNTED CIRCUIT BOARD, VR-165
702	A-8276-793-A	o MOUNTED CIRCUIT BOARD, SW-606
703	1-241-009-11	s RES, VAR, SLIDE 10K
704	1-609-885-00	o PRINTED CIRCUIT BOARD, MIC
705	1-649-753-11	o PRINTED CIRCUIT BOARD, CN-841
706	3-180-426-01	s KNOB CAP (ab 13)
707	3-180-434-01	s KNOB (ab 13)
709	3-182-995-03	o BRACKET, VOL
710	3-183-011-02	o PANEL, MONITOR
711	3-574-761-00	s HOLDER, MICROPHONE
712	4-888-884-21	s CAP, KNOB
713	4-888-885-31	s KNOB
714	4-904-321-01	o COVER, MICROPHONE
715	4-937-102-11	s KNOB, FADER

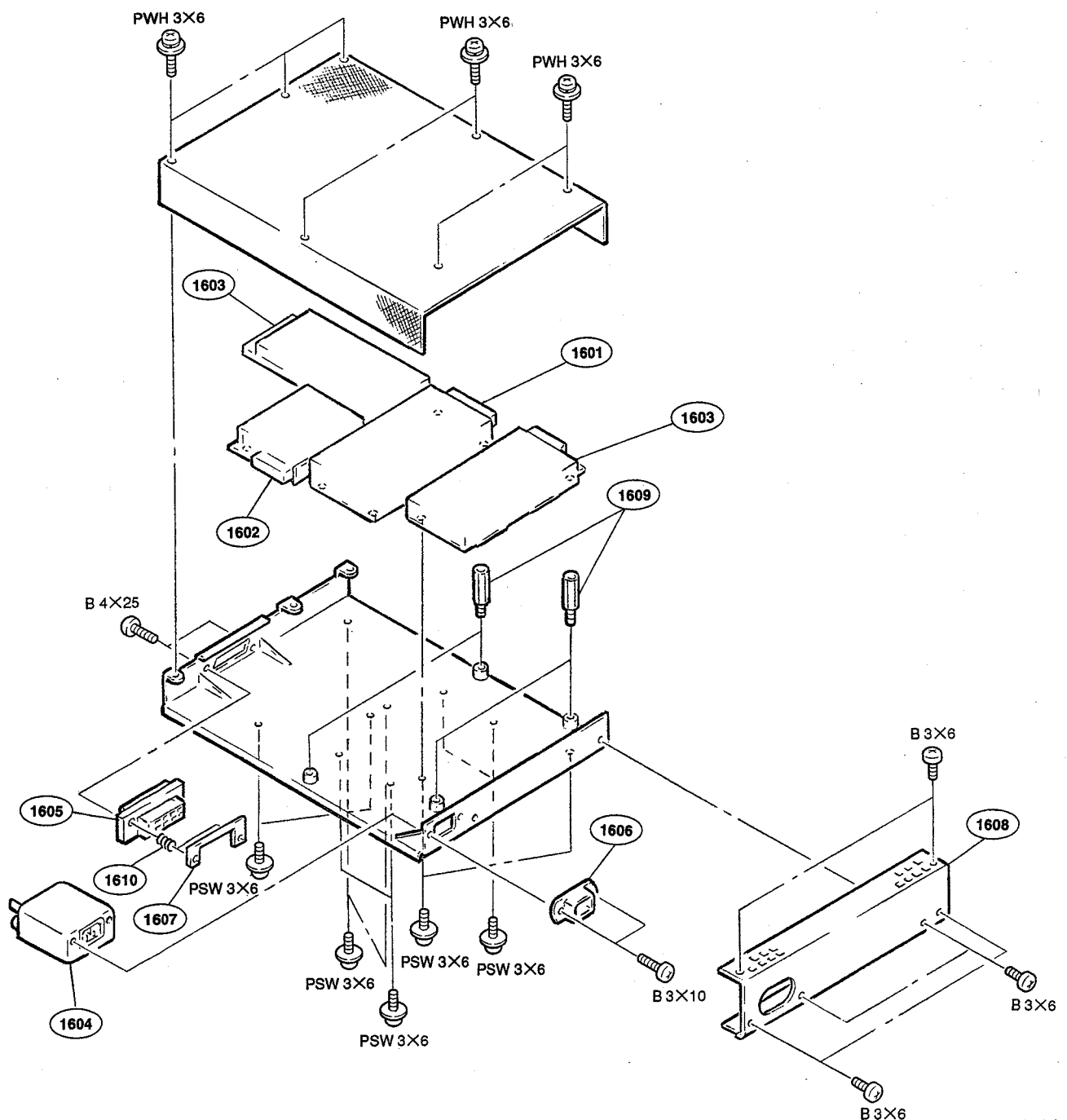


(9) PANEL POWER ASSY, DMBK-4009 (OPTION)

No. Part No. SP Description

1601 Δ 1-413-915-11 s SWITCHING REG.(TDK.FAW05-20R)
1602 Δ 1-413-918-11 s SWITCHING REG.(TDK.FAW12-2R1)
1603 Δ 1-413-919-11 s SWITCHING REG.(TDK.FAW18-2R8)
1604 Δ 1-424-451-11 s FILTER, NOISE (GL-2060M)
1605 Δ 1-691-186-11 o HOUSING, CONNECTOR 24P

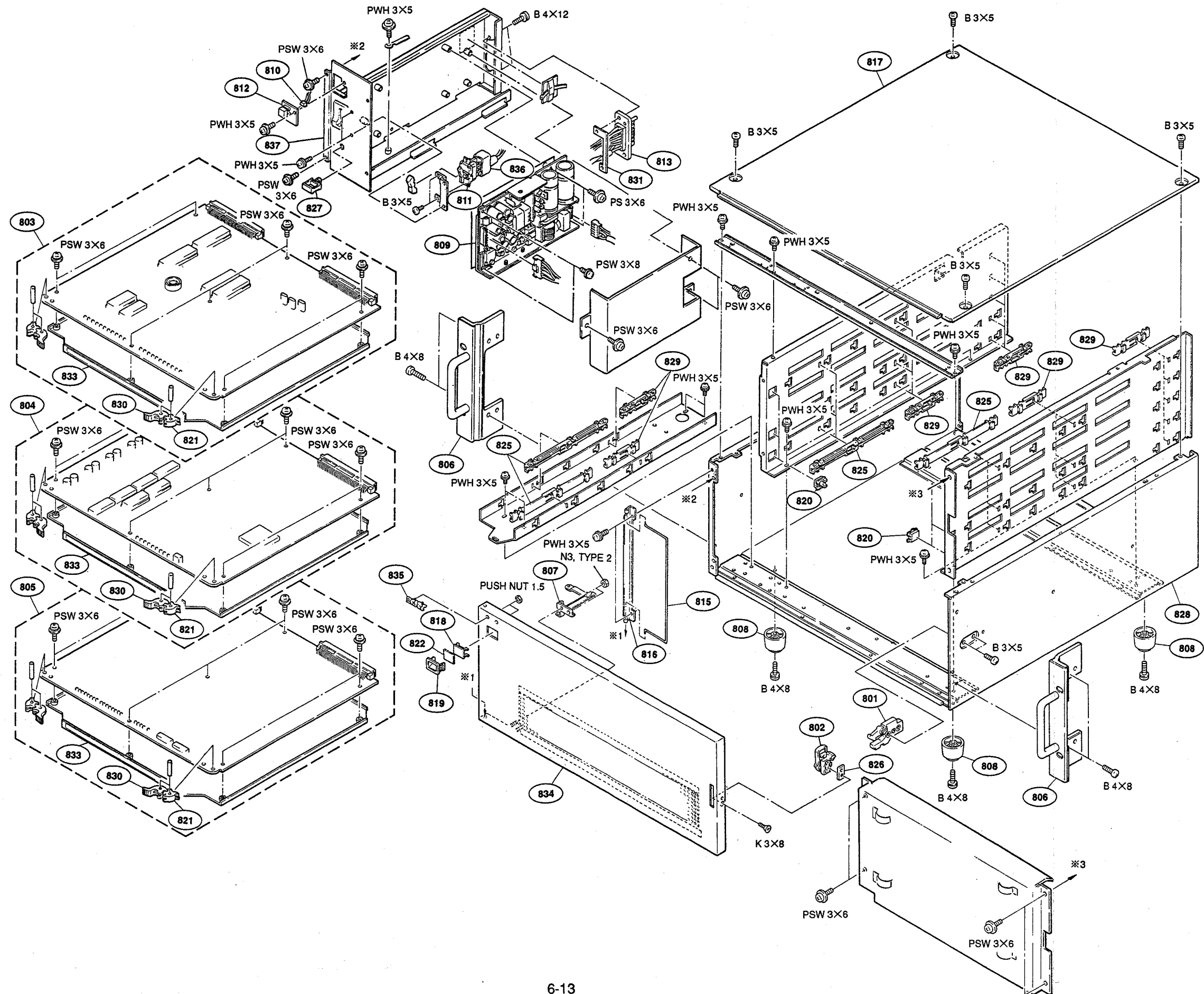
1606 2-990-241-02 s HOLDER (A), PLUG
1607 3-182-952-01 s NUT (24), PLATE
1608 3-182-997-03 o PANEL, PW
1609 3-664-223-00 o SUPPORT, PC BOARD
1610 3-669-602-00 s SPRING, COMPRESSION



DMX-B4008 PROCESSOR UNIT

(1) MAIN BLOCK

No.	Part No.	SP Description
801	A-7570-046-A	s TABLE ASSY, LOCK
802	A-7570-051-A	s HANDLE ASSY (W), SWITCHING
803	A-8275-407-A	o MOUNTED CIRCUIT BOARD, CPU-164
804	A-8275-408-A	o MOUNTED CIRCUIT BOARD, DIO-26
805	A-8275-409-A	o MOUNTED CIRCUIT BOARD, MIX-15
806	X-2127-223-2	o ANGLE ASSY (4U), RACK
807	X-2182-907-3	o STOPPER ASSY
808	X-3316-715-1	s FOOT ASSY
809	△1-413-955-11	s SWITCHNG REG. (MRW-171-1)
810	1-569-196-11	o HOUSING, CONNECTOR 3P
811	△1-570-117-31	s SWITCH, SEESAW (AC POWER)
812	1-636-210-11	o PRINTED CIRCUIT BOARD, DP-131
813	△1-691-940-11	o HOUSING, CONNECTOR 16P
815	2-139-101-01	o SHAFT (4U), HINGE
816	2-139-127-01	s HINGE (4U)
817	3-184-418-01	o PLATE (D450), TOP
818	2-139-192-01	s FRAME, INDICATOR WINDOW
819	2-139-193-02	s WINDOW, INDICATOR
820	2-146-576-01	o GUIDE
821	2-146-577-01	o LEVER (1), PC BOARD
822	2-249-353-00	s COVER, LAMP
825	3-169-099-01	o RAIL, PC BOARD GUIDE
826	3-172-088-02	o SPACER (L)
827	3-172-089-01	o HANDLE
828	3-184-342-02	o CHASSIS (4U)
829	3-174-468-01	o RAIL (60), PC BOARD GUIDE
830	3-174-923-01	o LEVER (2), PC BOARD
831	3-183-891-01	o NUT (16), CN PLATE
833	3-177-060-02	o PLATE, SHIELD, PC BOARD
834	3-183-002-02	o PANEL (4U), FRONT
835	3-718-322-02	o EMBLEM, SONY
836	4-378-341-01	o COVER, SWITCH
837	X-3167-444-1	o BRACKET ASSY, POWER



CONNECTOR PANEL BLOCK

DMX-B4008 PROCESSOR

This diagram illustrates the exploded view of a connector panel block assembly. The components are organized into several main sections:

- Top Section:** Features a series of connector modules (901, 902, 903, 904, 905) mounted on a base. These modules are secured with screws (PSW 3x6, PWH 3x5) and include various mounting brackets (P 2.6x5, B 3x8, B 3x5).
- Right Section:** Shows a vertical assembly of components including a fan (910), a power supply unit (909), and a control unit (906). These are mounted on a frame using screws (PSW 3x6, PWH 3x5, PS 4x25, PS 4x30) and brackets (K 3x6, N 3, TYPE 2, LW 3, TYPE B).
- Bottom Section:** Displays a series of mounting brackets (911, 912, 913, 914, 915, 916, 917, 918, 919) and screws (PSW 3x6, PWH 3x5, PS 3x8) used to secure the components to the base.
- Assembly Notes:** The diagram includes several assembly notes and callouts:
 - ※1, ※2, ※3, ※4, ※5, ※6, ※7: Indicate specific assembly points or sequences.
 - PSW 3x6, PWH 3x5, PS 4x25, PS 4x30, B 3x8, B 3x5, K 3x6, N 3, TYPE 2, LW 3, TYPE B, PS 3x8: Specify the type and size of the screws and brackets used.

The diagram provides a detailed view of the internal structure and component layout of the connector panel block.

No.	Part No.	SP Description
901	A-8275-410-A	o MOUNTED CIRCUIT BOARD, CN-833
902	A-8275-411-A	o MOUNTED CIRCUIT BOARD, CN-834
903	A-8275-412-A	o MOUNTED CIRCUIT BOARD, CN-835
904	A-8275-413-A	o MOUNTED CIRCUIT BOARD, CN-836
905	A-8275-419-A	o MOUNTED CIRCUIT BOARD, CN-837
906	A-8275-420-A	o MOUNTED CIRCUIT BOARD, PS-313
907	A-8276-795-A	o MOUNTED CIRCUIT BOARD, MB-481
908	X-4801-204-0	o TERMINAL ASSY
909	1-424-451-11	s FILTER, NOISE (GL-2060M)
910	1-541-891-11	s MOTOR, DC FAN (WITH FG)
911	1-563-771-11	s SOKET, D-SUB CONNECTOR 15P
912	1-563-772-11	o SOKET, D-SUB CONNECTOR 25P
913	1-568-005-11	s CONNECTOR, XLR TYPE 3P
914	1-568-006-11	s CONNECTOR, XLR TYPE 3P
915	1-580-347-11	s CONNECTOR, BNC
916	2-990-241-02	s HOLDER (A), PLUG
917	3-172-089-01	o HANDLE
918	3-177-016-01	o NUT (F), PLATE
919	3-182-989-03	o PANEL, CN-837
920	3-182-990-02	o PANEL, CN-835
921	3-182-990-12	o PANEL, CN-836
922	3-182-991-02	o PANEL, CN-834
923	3-182-992-03	o PANEL, CN-833
924	3-183-045-03	o PANEL, REAR
925	3-183-891-01	o NUT (16), CN PLATE
926	3-669-602-00	s SPRING, COMPRESSION
927	3-184-772-01	o NUT, PLATE
928	3-184-773-01	o CN, PLATE, SHIELD
929	3-184-858-01	o SHIELD, MB-481
930	4-886-542-00	o SUPPORT

AIN BLOCK DMX-B4016 PROCESSOR
MBK-4008 (OPTION), DMBK-4010 (OPTION), DMBK-4011 (OPTION)

DMX-B4016 PROCESSOR UNIT

(1) MAIN BLOCK

No.	Part No.	SP Description
1001	A-7570-046-A	s TABLE ASSY, LOCK
1002	A-7570-051-A	s HANDLE ASSY (W), SWITCHING
1003	A-8275-631-A	o MOUNTED CIRCUIT BOARD, CPU-144
1004	A-8275-633-A	o MOUNTED CIRCUIT BOARD, MIX-16
1005	A-8275-636-A	o MOUNTED CIRCUIT BOARD, IPM-48
1006	A-8275-641-A	o MOUNTED CIRCUIT BOARD, PS-314
1007	X-2182-907-3	o STOPPER ASSY
1008	X-3165-217-1	o ANGLE ASSY, RACK
1009	X-3316-715-1	s FOOT ASSY
1010	1-541-891-11	s MOTOR, DC FAN (WITH FG)
1011	1-636-210-11	o PRINTED CIRCUIT BOARD, DP-131
1013	2-139-192-01	s FRAME, INDICATOR WINDOW
1014	2-139-193-02	s WINDOW, INDICATOR
1015	2-146-576-01	o GUIDE
1016	2-146-577-01	o LEVER (1), PC BOARD
1017	2-249-353-00	s COVER, LAMP
1018	3-169-099-01	o RAIL, PC BOARD GUIDE
1019	3-171-771-01	o HINGE, PANEL
1020	3-171-772-01	o SHAFT (7U), HINGE
1021	3-174-468-01	o RAIL (60), PC BOARD GUIDE
1022	3-174-923-01	o LEVER (2), PC BOARD
1023	3-184-323-01	o PANEL (7U), FRONT
1024	3-184-328-01	o PLATE, SIDE (RIGHT)
1025	3-184-329-01	o PLATE, SIDE (LEFT)
1026	3-184-332-02	o PLATE, BOTTOM
1027	3-184-334-01	o PLATE, TOP
1028	3-184-844-01	o PLATE, BLIND, POWER
1029	3-669-602-00	s SPRING, COMPRESSION
1030	3-687-263-01	s SCREW, STEP
1031	3-718-322-02	o EMBLEM, SONY
1032	4-030-359-01	o HEAT SINK, H. PIN
1033	4-314-320-00	o HOLDER, WIRE
1034	4-826-553-01	s SPRING (B), COMPRESSION

DMBK-4010 (OPTION)

1051	A-8275-633-A	o MOUNTED CIRCUIT BOARD, MIX-16
1052	A-8275-636-A	o MOUNTED CIRCUIT BOARD, IPM-48
1016	2-146-577-01	o LEVER (1), PC BOARD
1021	3-174-923-01	o LEVER (2), PC BOARD

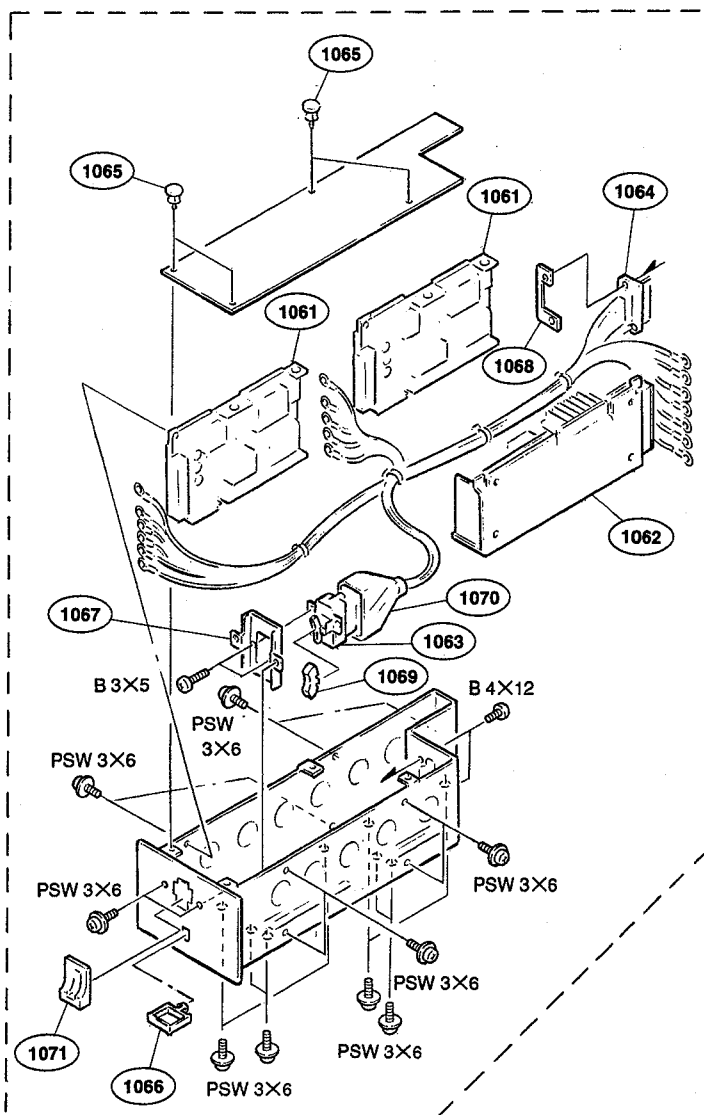
DMBK-4011 (OPTION)

1051	A-8275-633-A	o MOUNTED CIRCUIT BOARD, MIX-16
1016	2-146-577-01	o LEVER (1), PC BOARD
1021	3-174-923-01	o LEVER (2), PC BOARD

RACK POWER ASSY, DMBK-4008 (OPTION)

1061	A1-413-919-11	s SWITCHING REG.(TDXFAW18-2R8)
1062	A1-413-956-11	s SWITCHING REG.(TDXFAW05-30R)
1063	A1-570-384-11	s SWITCH, SEESAW (AC POWER)
1064	A1-691-940-11	o HOUSING, CONNECTOR 16P
1065	2-249-250-00	s CLIP (SMALL), CANOE
1066	3-172-089-01	o HANDLE
1067	3-172-691-01	o BRACKET, SWITCH
1068	3-183-891-01	o NUT (16), CN PLATE
1069	3-688-814-01	s CAP, SWITCH
1070	4-378-341-01	o COVER, SWITCH
1071	4-604-107-11	o GUARD, POWER SW

RACK POWER ASSY, DMBK-4008 (OPTION)

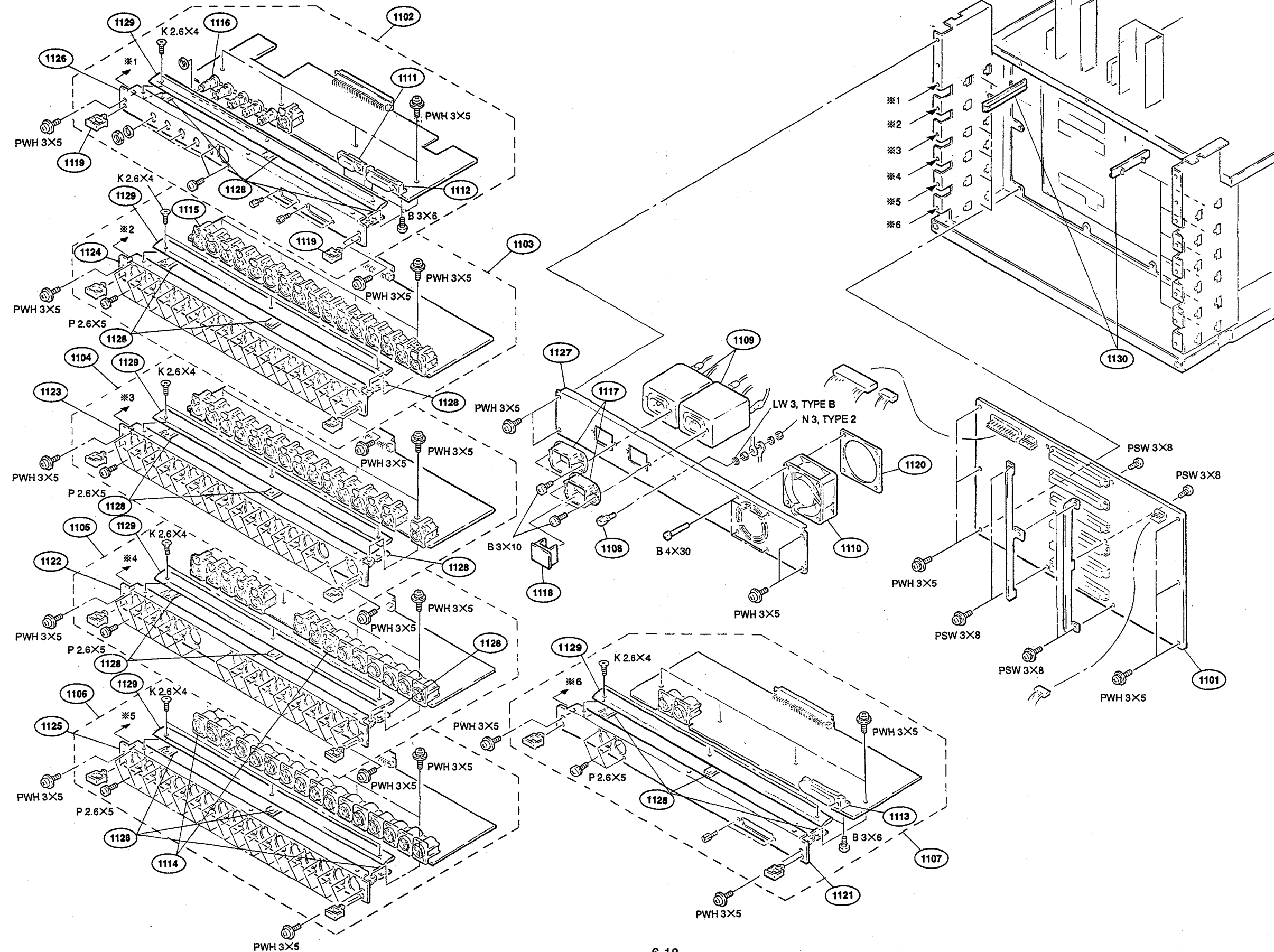




CONNECTOR PANEL BLOCK
DMX-B4016 PROCESSOR

CONNECTOR PANEL BLOCK
DMX-B4016 PROCESSOR

(2) CONNECTOR PANEL BLOCK



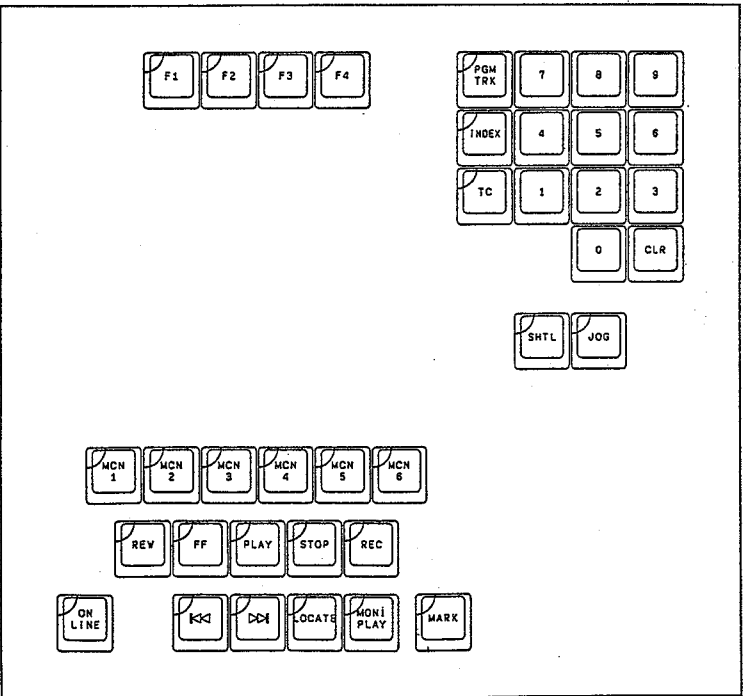
No.	Part No.	SP Description
1101	A-8274-619-A	o MOUNTED CIRCUIT BOARD, MB-480
1102	A-8275-634-A	o MOUNTED CIRCUIT BOARD, CN-827
1103	A-8275-635-A	o MOUNTED CIRCUIT BOARD, CN-828A
1104	A-8275-637-A	o MOUNTED CIRCUIT BOARD, CN-828B
1105	A-8275-638-A	o MOUNTED CIRCUIT BOARD, CN-830
1106	A-8275-639-A	o MOUNTED CIRCUIT BOARD, CN-831
1107	A-8275-640-A	o MOUNTED CIRCUIT BOARD, CN-832A (FOR UC/EK)
	A-8275-642-A	o MOUNTED CIRCUIT BOARD, CN-832B (FOR J)
1108	X-4801-204-0	o TERMINAL ASSY
1109	Δ1-424-451-11	s FILTER, NOISE (GL-2060M)
1110	1-541-891-11	s MOTOR, DC FAN (WITH FG)
1111	1-563-771-11	s SOCKET, D-SUB CONNECTOR 15P
1112	1-563-772-11	o SOCKET, D-SUB CONNECTOR 25P
1113	1-563-773-11	s SOCKET, D-SUB CONNECTOR 37P
1114	1-568-005-11	s CONNECTOR, XLR TYPE 3P
1115	1-568-006-11	s CONNECTOR, XLR TYPE 3P
1116	1-764-273-11	s CONNECTOR, BNC
1117	2-990-241-02	s HOLDER (A), PLUG
1118	3-171-957-01	s CAP, PLUG HOLDER
1119	3-172-089-01	o HANDLE
1120	3-177-016-01	o NUT (F), PLATE
1121	3-184-313-02	o PANEL, CN-832
1122	3-184-314-02	o PANEL, CN-830
1123	3-184-315-02	o PANEL, CN-828 (B)
1124	3-184-316-02	o PANEL, CN-828A
1125	3-184-316-12	o PANEL, CN-831
1126	3-184-317-02	o PANEL, CN-827
1127	3-184-321-01	o PANEL, REAR
1128	3-184-772-01	o NUT, PLATE
1129	3-184-856-01	o CN, PLATE, SHIELD
1130	3-680-613-01	o SUPPORT, PC BOARD

OPTIONAL ACCESSORIES

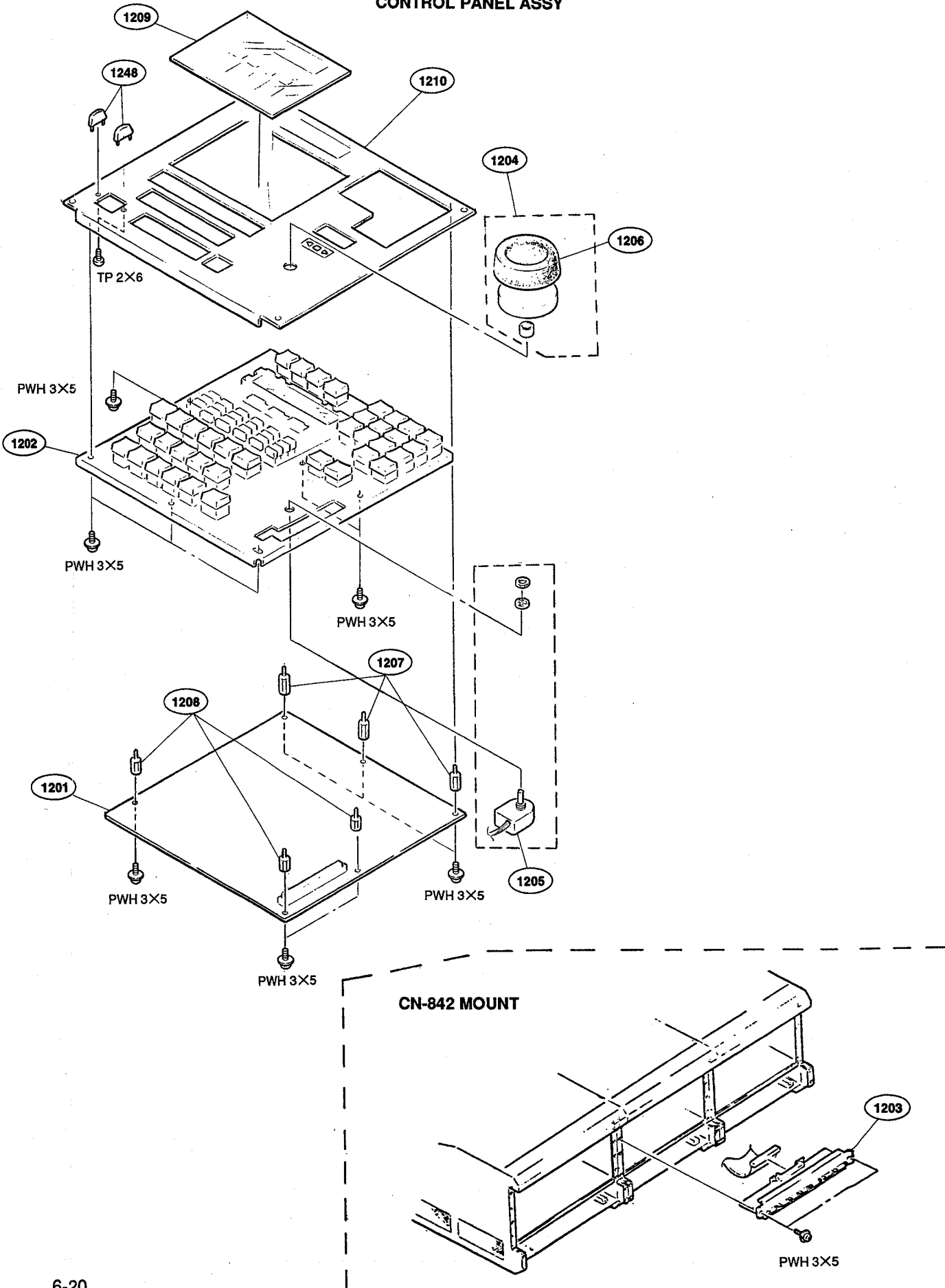
DMBK-4001 (OPTION)

No.	Part No.	SP Description
1201	A-8275-627-A	o MOUNTED CIRCUIT BOARD, CPU-146
1202	A-8275-628-A	o MOUNTED CIRCUIT BOARD, KY-302
1203	A-8276-860-A	o MOUNTED CIRCUIT BOARD, CN-842
1204	X-3678-032-1	s DIAL, ASSY
1205	1-466-955-11	s ENCODER, ROTARY
1206	3-179-110-01	s COVER, DIAL
1207	3-184-303-01	o STANDOFF, PCB 21.9
1208	3-184-304-01	o STANDOFF, PCB 16.3
1209	3-184-306-01	o LENS, CONTROL
1210	3-184-309-01	o TOP PANEL, REMOTE CONTROLLER
1211	3-708-603-11	o KEY TOP (1) (0)
1212	3-708-603-21	o KEY TOP (1) (1)
1213	3-708-603-31	o KEY TOP (1) (2)
1214	3-708-603-41	o KEY TOP (1) (3)
1215	3-708-603-51	o KEY TOP (1) (4)
1216	3-708-603-61	o KEY TOP (1) (5)
1217	3-708-603-71	o KEY TOP (1) (6)
1218	3-708-603-81	o KEY TOP (1) (7)
1219	3-708-603-91	o KEY TOP (1) (8)
1220	3-708-604-01	o KEY TOP (1) (9)
1221	3-708-783-11	o KEY TOP (1) (CLR)
1222	3-708-848-01	s KEY TOP (LED) (F1)
1223	3-708-848-11	s KEY TOP (LED) (F2)
1224	3-708-848-21	s KEY TOP (LED) (F3)
1225	3-708-848-31	s KEY TOP (LED) (F4)
1226	3-708-848-41	s KEY TOP (LED) (PGM TRK)
1227	3-708-848-51	s KEY TOP (LED) (INDEX)
1228	3-708-848-61	s KEY TOP (LED) (TC)
1229	3-708-848-71	s KEY TOP (LED) (MCN1)
1230	3-708-848-81	s KEY TOP (LED) (MCN2)
1231	3-708-849-01	s KEY TOP (LED) (MCN4)
1232	3-708-849-11	s KEY TOP (LED) (MCN5)
1233	3-708-849-21	s KEY TOP (LED) (MCN6)
1234	3-708-849-31	s KEY TOP (LED) (REW)
1235	3-708-849-41	s KEY TOP (LED) (FF)
1236	3-708-849-51	s KEY TOP (LED) (PLAY)
1237	3-708-849-61	s KEY TOP (LED) (STOP)
1238	3-708-849-71	s KEY TOP (LED) (REC)
1239	3-708-849-81	s KEY TOP (LED) (JOG)
1240	3-708-850-01	s KEY TOP (LED) (ON LINE)
1241	3-708-850-11	s KEY TOP (LED) (LCATE)
1242	3-708-850-21	s KEY TOP (LED) (MONI PLAY)
1243	3-708-850-31	s KEY TOP (LED) (MARK)
1244	3-708-850-41	s KEY TOP (LED) (SHTL)
1245	3-708-851-01	s KEY TOP (LED) (MCN3)
1246	3-708-851-11	s KEY TOP (LED) (SHTL)
1247	3-708-851-21	s KEY TOP (LED) (MARK)
1248	3-717-380-01	o GUARD, REC

KEY TOP (1211 to 1247)

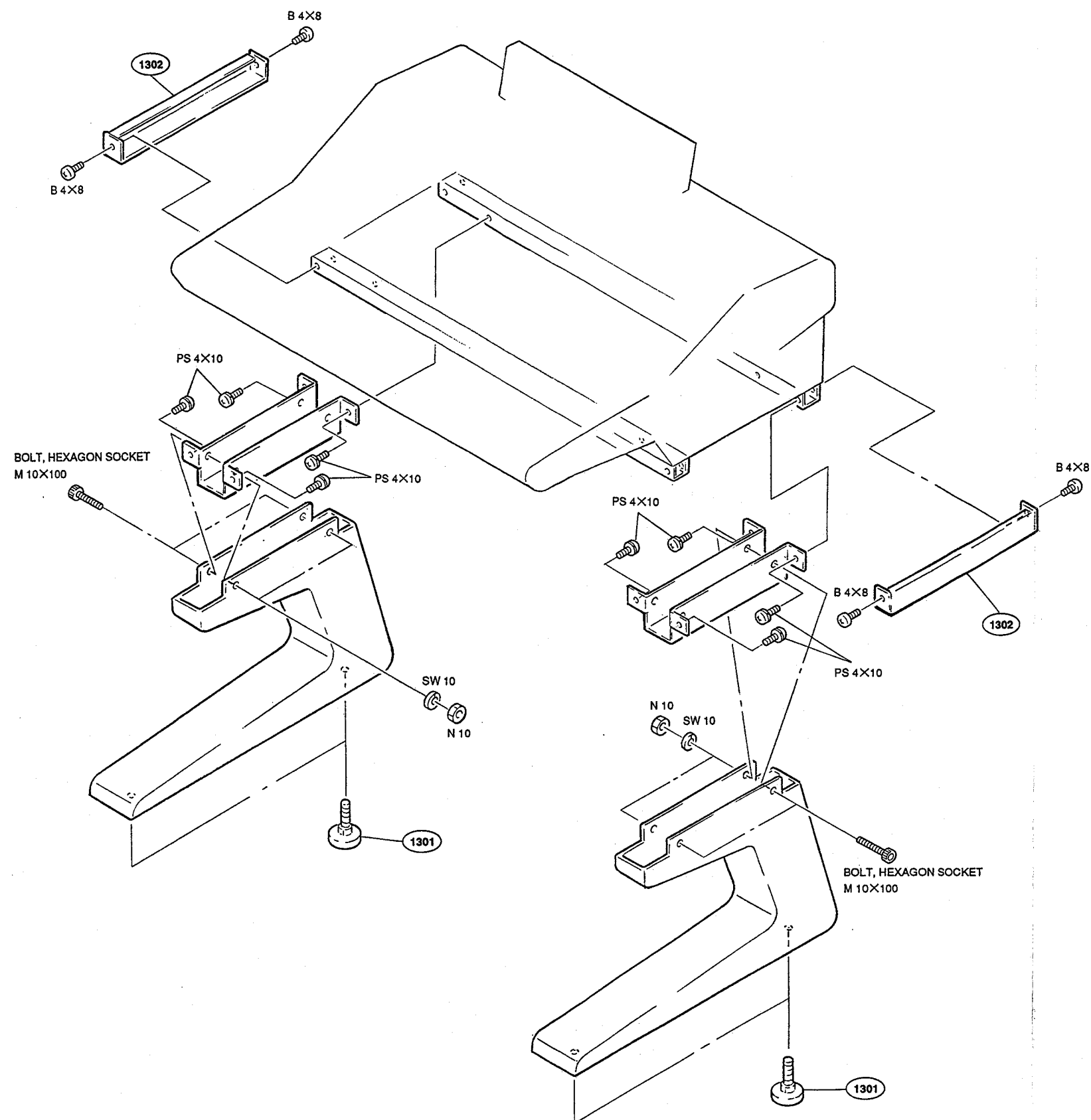


CONTROL PANEL ASSY



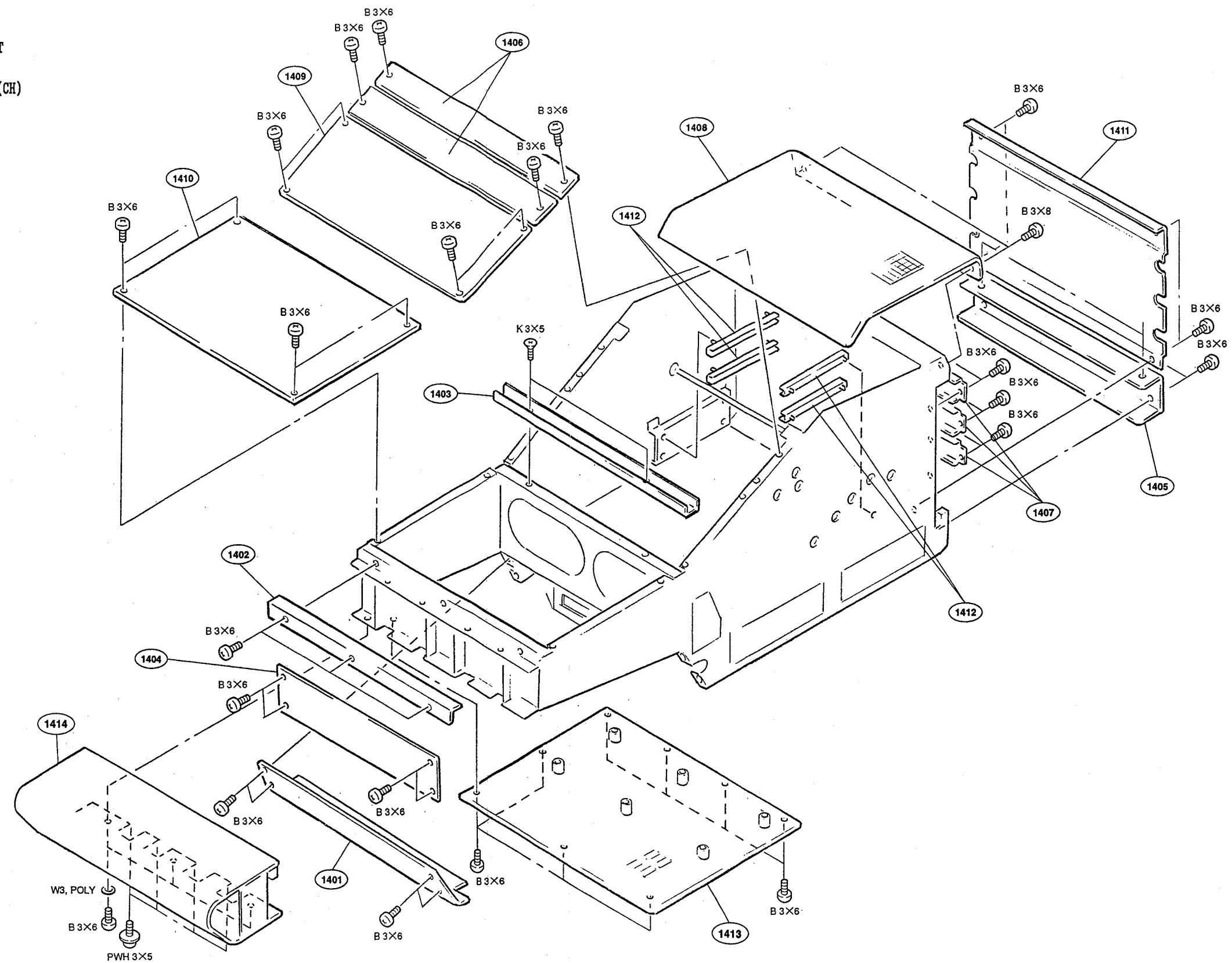
DMBK-4002 (OPTION)

No.	Part No.	SP Description
1301	3-183-528-02	o LEVEL ADJUSTORL
1302	3-183-529-02	o PLATE, BLIND



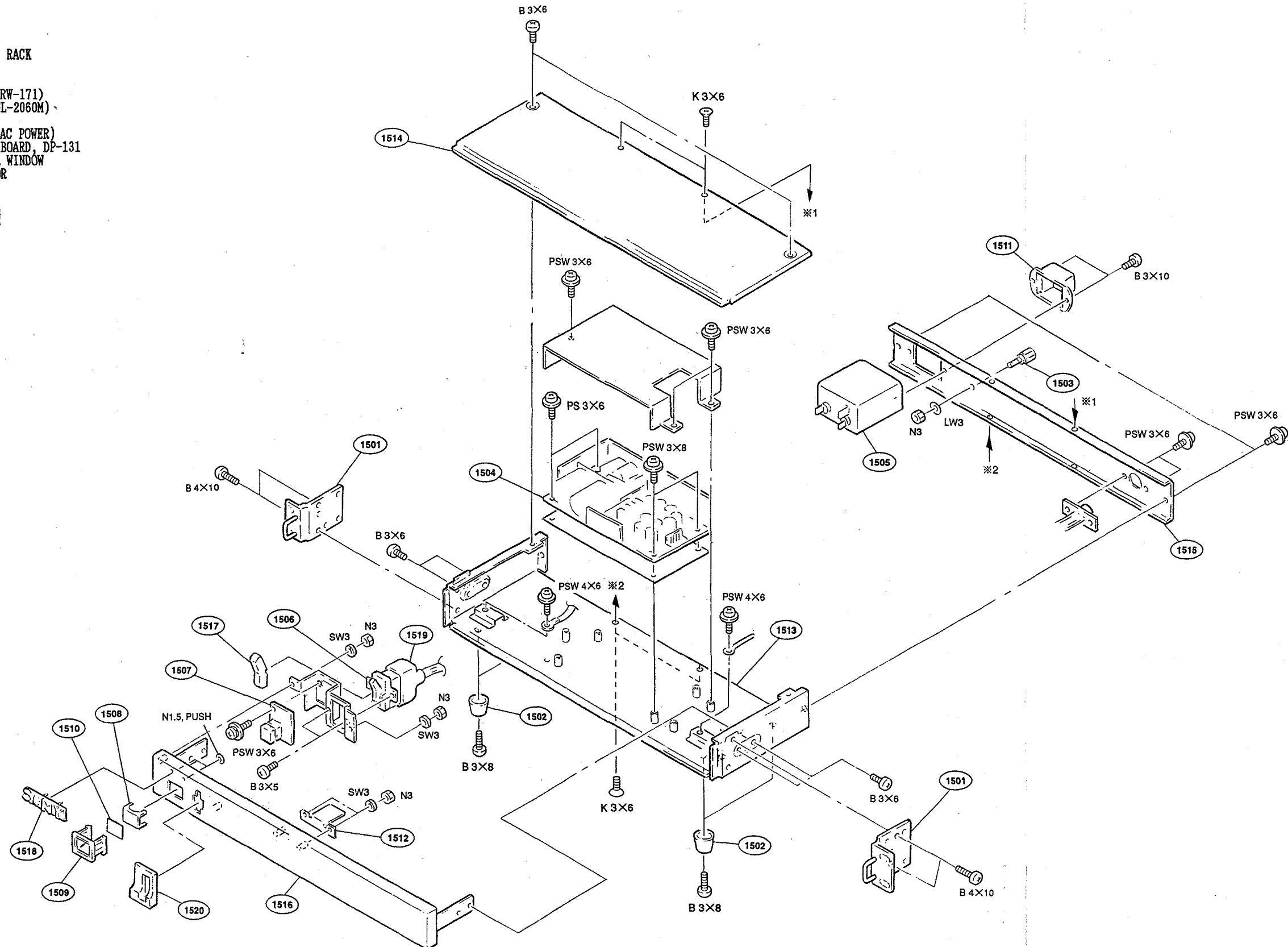
DMBK-4004 (OPTION)

No.	Part No.	SP Description
1401	3-182-970-02	COVER (CH), BOTTOM FRONT
1402	3-182-972-02	RAIL (L), CH
1403	3-182-973-02	RAIL (M), CH
1404	3-182-974-01	ORNAMENTAL FRONT PLATE (CH)
1405	3-183-014-03	PANEL (CH), PW/BLANK
1406	3-183-015-03	PANEL, HA BLIND
1407	3-183-017-01	PANEL, CN BLIND
1408	3-183-042-03	COVER (CH), TOP
1409	3-183-535-02	BLANK (CH)
1410	3-183-536-02	BLANK (FED)
1411	3-183-537-01	BLANK, REAR PANEL
1412	3-673-676-21	RAIL, PC BOARD GUIDE
1413	3-183-021-01	PANEL (CH), BOTTOM
1414	X-3167-357-1	PAD (CH) ASSY



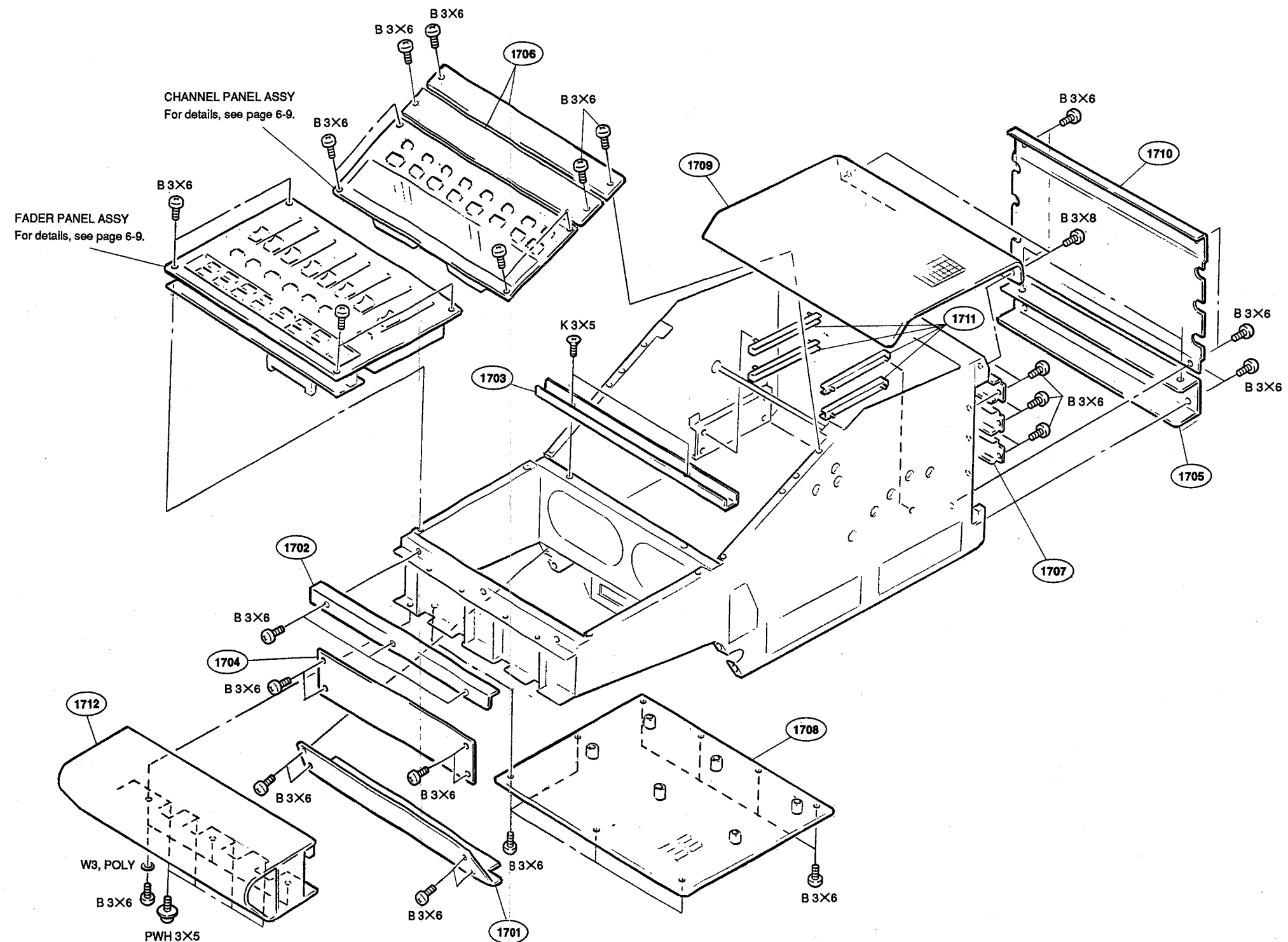
DMBK-4007 (OPTION)

No.	Part No.	SP Description
1501	X-2127-214-3	o ANGLE (1U) ASSY, RACK
1502	X-3556-910-0	s FOOT ASSY, MF
1503	X-4801-204-0	o TERMINAL ASSY
1504	A1-413-955-11	s SWITCHING REG. (MRW-171)
1505	1-424-451-11	s FILTER, NOISE (GL-2060M)
1506	A1-570-384-11	s SWITCH, SEESAW (AC POWER)
1507	1-636-210-11	o PRINTED CIRCUIT BOARD, DP-131
1508	2-139-192-01	s FRAME, INDICATOR WINDOW
1509	2-139-193-02	s WINDOW, INDICATOR
1510	2-249-353-00	s COVER, LAMP
1511	2-990-241-02	s HOLDER (A), PLUG
1512	3-166-049-01	o REINFORCEMENT, F
1513	3-184-985-01	o CHASSIS (D150)
1514	3-184-986-01	o PLATE TOP (D150)
1515	3-182-941-03	o PANEL, REAR
1516	3-182-942-01	o PANEL, FRONT
1517	3-688-814-11	s CAP, SWITCH
1518	3-718-322-02	o EMBLEM, SONY
1519	4-378-341-01	o COVER, SWITCH
1520	4-604-107-11	o GUARD, POWER SW



DMBK-4010 (OPTION)

No.	Part No.	SP Description
1701	3-182-970-02	COVER (CH), BOTTOM FRONT
1702	3-182-972-02	RAIL (L), CH
1703	3-182-973-02	RAIL (M), CH
1704	3-182-974-01	ORNAMENTAL FRONT PLATE (CH)
1705	3-183-014-03	PANEL (CH), PW/BLANK
1706	3-183-015-03	PANEL, HA BLIND
1707	3-183-017-01	PANEL, CN BLIND
1708	3-183-021-01	PANEL (CH), BOTTOM
1709	3-183-042-03	COVER (CH), TOP
1710	3-183-537-01	BLANK, REAR PANEL
1711	3-673-676-21	RAIL, PC BOARD GUIDE
1712	X-3167-357-1	PAD (CH) ASSY



6-3. ELECTRICAL PARTS LIST

----- CAPACITOR, CERAMIC -----

Part No. SP Description

1-164-159-11 s CAP, CERAMIC 0.1uF 50V

----- RESISTOR, METAL -----

Part No. SP Description

1-215-469-00 s METAL 100K 1% 1/6W

----- RESISTOR, CARBON -----

Part No. SP Description

1-247-807-31 s CARBON	100 5% 1/4W
1-249-401-11 s CARBON	47 5% 1/4W
1-249-417-11 s CARBON	1K 5% 1/4W

DMX-B4008/B4016 CONSOLE**CN-838 BOARD/CONSOLE**

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-796-A	o MOUNTED CIRCUIT BOARD, CN-838
12pcs	7-682-547-04	s SCREW +B 3X6
3pcs	7-682-903-01	s SCREW +PWH 3X5
CN1	1-580-347-11	s CONNECTOR, BNC, FEMALE
CN2	1-566-319-11	o CONNECTOR, D-SUB 15P, MALE
CN3	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN4	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN5	1-563-771-11	s CONNECTOR, D-SUB 15P, FEMALE
CN6	1-563-781-21	s CONNECTOR, D-SUB 50P, FEMALE
CN7	1-563-781-21	s CONNECTOR, D-SUB 50P, FEMALE
CN601	1-695-252-11	o HEADER (RIGHT ANGLE TYPE) 26P
CN602	1-695-250-11	o HEADER (RIGHT ANGLE TYPE) 16P
CN603	1-695-252-11	o HEADER (RIGHT ANGLE TYPE) 26P
CN604	1-695-254-11	o HEADER (RIGHT ANGLE TYPE) 50P
FL1 to FL81	1-236-163-11	s ENCAPSULATED COMPONENT
R1	1-214-837-11	s METAL 75 1% 1/2W
R2	1-214-837-11	s METAL 75 1% 1/2W

CN-839 BOARD/CONSOLE

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-797-A	o MOUNTED CIRCUIT BOARD, CN-839
12pcs	7-682-547-04	s SCREW +B 3X6
3pcs	7-682-903-01	s SCREW +PWH 3X5
CN1	1-563-781-21	s CONNECTOR, D-SUB 50P, FEMALE
CN2	1-563-781-21	s CONNECTOR, D-SUB 50P, FEMALE
CN3	1-563-772-11	o CONNECTOR, D-SUB 25P, FEMALE
CN4	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN5	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN6	1-563-771-11	s CONNECTOR, D-SUB 15P, FEMALE
CN605	1-695-253-11	o HEADER (RIGHT ANGLE TYPE) 40P
CN606	1-695-253-11	o HEADER (RIGHT ANGLE TYPE) 40P
CN607	1-695-251-11	o HEADER (RIGHT ANGLE TYPE) 20P
CN608	1-695-251-11	o HEADER (RIGHT ANGLE TYPE) 20P
CN609	1-695-250-11	o HEADER (RIGHT ANGLE TYPE) 16P
FL1 to FL103	1-236-163-11	s ENCAPSULATED COMPONENT

CN-840 BOARD/CONSOLE

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-798-A	o MOUNTED CIRCUIT BOARD, CN-840A (FOR UC/EK)
1pc	A-8276-799-A	o MOUNTED CIRCUIT BOARD, CN-840B (FOR J)
6pcs	7-682-547-04	s SCREW +B 3X6
3pcs	7-682-903-01	s SCREW +PWH 3X5
8pcs	7-621-259-35	s SCREW +P 2.6X5
CN1	1-566-321-11	s CONNECTOR, D-SUB 37P, MALE
CN2	1-563-773-11	s CONNECTOR, D-SUB 37P, FEMALE
CN3	1-568-005-11	s CONNECTOR, XLR 3P, MALE (FOR J)
CN3	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE (FOR UC/EK)
CN4	1-568-005-11	s CONNECTOR, XLR 3P, MALE (FOR J)
CN4	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE (FOR UC/EK)
CN5	1-568-005-11	s CONNECTOR, XLR 3P, MALE (FOR J)
CN5	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE (FOR UC/EK)
CN6	1-568-005-11	s CONNECTOR, XLR 3P, MALE (FOR J)
CN6	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE (FOR UC/EK)
CN7	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN610	1-560-781-00	o HEADER 34P
CN611	1-695-253-11	o HEADER (RIGHT ANGLE TYPE) 40P
CN612	1-695-252-11	o HEADER (RIGHT ANGLE TYPE) 26P
FL1 to FL37	1-236-163-11	s ENCAPSULATED COMPONENT
FL38	1-236-163-11	s ENCAPSULATED COMPONENT (FOR J)
FL39	1-236-163-11	s ENCAPSULATED COMPONENT (FOR UC/EK)
FL40	1-236-163-11	s ENCAPSULATED COMPONENT
FL41	1-236-163-11	s ENCAPSULATED COMPONENT (FOR J)
FL42	1-236-163-11	s ENCAPSULATED COMPONENT (FOR UC/EK)
FL43	1-236-163-11	s ENCAPSULATED COMPONENT
FL44	1-236-163-11	s ENCAPSULATED COMPONENT (FOR J)
FL45	1-236-163-11	s ENCAPSULATED COMPONENT (FOR UC/EK)
FL46	1-236-163-11	s ENCAPSULATED COMPONENT
FL47	1-236-163-11	s ENCAPSULATED COMPONENT (FOR J)
FL48	1-236-163-11	s ENCAPSULATED COMPONENT (FOR UC/EK)
FL49 to FL52	1-236-163-11	s ENCAPSULATED COMPONENT
JW1	1-535-303-00	o WIRE, JUMPER (FOR UC/EK)
JW2	1-535-303-00	o WIRE, JUMPER (FOR J)
JW3	1-535-303-00	o WIRE, JUMPER (FOR UC/EK)
JW4	1-535-303-00	o WIRE, JUMPER (FOR J)
JW5	1-535-303-00	o WIRE, JUMPER (FOR UC/EK)
JW6	1-535-303-00	o WIRE, JUMPER (FOR J)
JW7	1-535-303-00	o WIRE, JUMPER (FOR UC/EK)
JW8	1-535-303-00	o WIRE, JUMPER (FOR J)

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

CN-841 BOARD/CONSOLE

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-649-753-11	o PRINTED CIRCUIT BOARD, CN-841
CN621	1-564-013-21	s PIN, CONNECTOR 3P
FL1	1-236-163-11	s ENCAPSULATED COMPONENT
FL2	1-236-163-11	s ENCAPSULATED COMPONENT
JK1	1-565-327-11	s JACK, LARGE TYPE 1P

CPU-145 BOARD/CONSOLE

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-415-A	o MOUNTED CIRCUIT BOARD, CPU-145 (FOR DMX-B4008)
1pc	A-8275-630-A	o MOUNTED CIRCUIT BOARD, CPU-145A (FOR DMX-B4016)
C101 to C108	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C109	1-126-163-11	s ELECT 4.7uF 20% 50V
C110	1-126-163-11	s ELECT 4.7uF 20% 50V
C111	1-126-163-11	s ELECT 4.7uF 20% 50V
C112	1-126-163-11	s ELECT 4.7uF 20% 50V
C113	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C114	1-124-261-00	s ELECT 10uF 20% 50V
C115	1-126-160-11	s ELECT 1uF 20% 50V
C116 to C134	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C201 to C212	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C213	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
C214	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
C215	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C301 to C315	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C401 to C410	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C501	1-124-261-00	s ELECT 10uF 20% 50V
C502	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C503	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C504	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C505 to C512	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C513 to C525	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C601 to C615	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C701 to C708	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C801	1-128-126-11	s ELECT 100uF 20% 25V
C802	1-128-126-11	s ELECT 100uF 20% 25V
C803	1-128-126-11	s ELECT 100uF 20% 25V
C804	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
CN1	1-563-890-21	s CONNECTOR, D-SUB 9P, FEMALE
CN2	1-563-890-21	s CONNECTOR, D-SUB 9P, FEMALE
CN3	1-564-411-11	o PIN, CONNECTOR 50P
CN200	1-564-241-00	o CONNECTOR, 4P, MALE
CN201	1-695-249-11	o HEADER (STRAIGHT) 50P
CN202	1-506-555-11	o HEADER 40P
CN203	1-695-249-11	o HEADER (STRAIGHT) 50P
CN204	1-695-248-11	o HEADER (STRAIGHT) 26P
CN205	1-695-246-11	o HEADER (STRAIGHT) 16P
CN206	1-560-806-00	o HEADER 34P
CN207	1-564-011-11	o CONNECTOR 12P, MALE
CN208	1-564-011-11	o CONNECTOR 12P, MALE
CN1114	1-526-816-21	s SOCKET, IC (DP) 24P

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(CPU-145 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
CNI115	1-526-816-21 s	SOCKET, IC (DP) 24P
CNI116	1-526-816-21 s	SOCKET, IC (DP) 24P
CNI117	1-526-816-21 s	SOCKET, IC (DP) 24P
CNI118	1-526-656-00 s	SOCKET, IC (DP) 20P
CNI201	1-526-662-21 o	SOCKET, IC (DP) 40P
CNI202	1-526-662-21 o	SOCKET, IC (DP) 40P
CNI204	1-526-659-00 o	SOCKET, IC 28P
CNI502	1-526-659-00 o	SOCKET, IC 28P
CNI611	1-526-816-21 s	SOCKET, IC (DP) 24P
COP102	1-563-859-11 s	PLUG, SHORTING
COP201	1-563-859-11 s	PLUG, SHORTING
COP202	1-563-859-11 s	PLUG, SHORTING
COP501	1-563-859-11 s	PLUG, SHORTING
CP101	8-719-980-37 s	DIODE DAN803
CP102	8-719-980-36 s	DIODE DAP803
D101	8-719-911-19 s	DIODE 1SS119
D102	8-719-812-31 s	LED TLR123, RED
D103	8-719-812-31 s	LED TLR123, RED
D104	8-719-812-43 s	LED TLG124A, GRN
to D111		
D201	8-719-987-87 s	DIODE ERA85-009
D501	8-719-911-19 s	DIODE 1SS119
D502	8-719-911-19 s	DIODE 1SS119
D503	8-719-911-19 s	DIODE 1SS119
D504	8-719-812-43 s	LED TLG124A, GRN
D505	8-719-812-43 s	LED TLG124A, GRN
D506	8-719-812-43 s	LED TLG124A, GRN
D507	8-719-812-43 s	LED TLG124A, GRN
D601	8-719-812-43 s	LED TLG124A, GRN
to D608		
D701	8-719-812-43 s	LED TLG124A, GRN
to D705		
IC101	8-759-194-86 s	IC MC68302FC16C
IC102	8-759-061-67 s	IC MC34051M
IC103	8-759-972-58 s	IC MAX238CNG
IC104	8-759-989-91 s	IC TL7705ACPS
IC105	8-759-239-92 s	IC TC74HC07AF
IC106	8-759-925-76 s	IC SN74HC08NS
IC107	8-759-926-07 s	IC SN74HC132NS
IC108	8-759-925-80 s	IC SN74HC14NS
IC109	8-759-244-12 s	IC TC74AC175F
IC110	8-759-926-23 s	IC SN74HC163NS
IC111	8-759-926-23 s	IC SN74HC163NS
IC112	8-759-989-03 s	IC 74F32SJ
IC113	8-759-948-01 s	IC 74F04SJ
IC114	8-759-247-80 o	IC 22V10B-145#114V1.00
IC115	8-759-247-75 o	IC 22V10B-IOPDEC-V1.0
IC116	8-759-247-76 o	IC 22V10B-PSEL-V1.0
IC117	8-759-247-77 o	IC 22V10B-IOSEL-V1.0
IC118	8-759-247-78 o	IC 16V8B-IORW-V1.0
IC119	8-759-926-54 s	IC SN74HC259ANS
IC201	8-759-274-95 o	IC 27C4002-PNLHOST-V1.00 (FOR DMX-B4008)
	8-759-262-07 o	IC 27C4002-16HOST-V1.00 (FOR DMX-B4016)
IC204	8-759-097-08 s	IC DS1643-150
IC205	8-752-365-27 s	IC CXK581000AM-70LL-TL
to IC212		

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(CPU-145 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
IC213	8-759-510-18 s	IC ICL7665ACSA
IC301	8-759-992-69 s	IC 74F245SJ
IC302	8-759-992-69 s	IC 74F245SJ
IC303	8-759-993-54 s	IC 74F541SJ
IC304	8-759-993-54 s	IC 74F541SJ
IC305	8-759-993-54 s	IC 74F541SJ
IC306	8-759-993-54 s	IC 74F541SJ
IC307	8-759-033-09 s	IC MC74F21M
IC308	8-759-926-77 s	IC SN74HC541NS
IC309	8-759-926-77 s	IC SN74HC541NS
IC310	8-759-926-49 s	IC SN74HC245NS
IC311	8-759-926-49 s	IC SN74HC245NS
IC312	8-759-926-77 s	IC SN74HC541NS
IC313	8-759-926-77 s	IC SN74HC541NS
IC314	8-759-926-49 s	IC SN74HC245NS
IC315	8-759-926-77 s	IC SN74HC541NS
IC401	8-759-510-88 s	IC MB8431-90LPFQ
IC402	8-759-973-43 s	IC MB8421-90LPFQ
IC403	8-759-510-88 s	IC MB8431-90LPFQ
IC404	8-759-973-43 s	IC MB8421-90LPFQ
IC405	8-759-926-62 s	IC SN74HC365ANS
IC406	8-759-926-49 s	IC SN74HC245NS
IC407	8-759-926-49 s	IC SN74HC245NS
IC408	8-759-926-77 s	IC SN74HC541NS
IC409	8-759-926-77 s	IC SN74HC541NS
IC410	8-759-926-77 s	IC SN74HC541NS
IC501	8-759-973-43 s	IC MB8421-90LPFQ
IC502	8-759-274-96 o	IC 27C256B-9PIN-V1.00
IC503	8-759-151-04 s	IC UPD43256AGU-10LL
IC504	8-759-925-85 s	IC SN74HC32NS
IC505	8-759-925-74 s	IC TC74HC04NS
IC506	8-759-926-07 s	IC SN74HC132NS
IC507	8-759-246-66 s	IC TMP284C015BF-6
IC508	8-759-926-23 s	IC SN74HC163NS
IC509	8-759-923-64 s	IC AM26LS32ACNS
IC510	8-759-926-30 s	IC AM26LS30PC
IC511	8-759-926-30 s	IC AM26LS30PC
IC512	8-759-998-40 s	IC SN75124NS
IC513	8-759-926-62 s	IC SN74HC365ANS
IC601	8-759-926-11 s	IC SN74HC138NS
IC602	8-759-926-11 s	IC SN74HC138NS
IC603	8-759-926-76 s	IC SN74HC540NS
IC604	8-759-926-76 s	IC SN74HC540NS
IC605	8-759-926-62 s	IC SN74HC365ANS
IC606	8-759-926-76 s	IC SN74HC540NS
IC607	8-759-926-69 s	IC SN74HC377ANS
IC608	8-759-926-69 s	IC SN74HC377ANS
IC609	8-759-926-69 s	IC SN74HC377ANS
IC610	8-759-925-90 s	IC SN74HC74NS
IC611	8-759-247-81 o	IC 22V10B-145#611V1.00
IC612	8-759-994-41 s	IC CXD8025Q
IC613	8-759-994-41 s	IC CXD8025Q
IC614	8-759-923-65 s	IC AM26LS31CNS
IC615	8-759-097-52 s	IC SN75123NS
IC701	8-759-926-11 s	IC SN74HC138NS
IC702	8-759-926-69 s	IC SN74HC377ANS
IC703	8-759-926-62 s	IC SN74HC365ANS
IC704	8-759-321-82 s	IC HD63265FP
IC705	8-759-992-25 s	IC 74F139SJ

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(CPU-145 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
IC706	8-759-501-10	s IC SN74LS540NS
IC707	8-759-501-10	s IC SN74LS540NS
IC708	8-759-239-92	s IC TC74HC07AF
JW101	1-566-388-11	s CONNECTOR 8P, MALE
JW102	1-566-388-11	s CONNECTOR 8P, MALE
JW103	1-566-388-11	s CONNECTOR 8P, MALE
JW201	1-566-388-11	s CONNECTOR 8P, MALE
JW202	1-566-388-11	s CONNECTOR 8P, MALE
JW501	1-566-388-11	s CONNECTOR 8P, MALE
R103	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R104	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R109	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R110	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R111	1-216-089-91	s RES, CHIP 47K 5% 1/10W
R112	1-216-089-91	s RES, CHIP 47K 5% 1/10W
R113	1-216-089-91	s RES, CHIP 47K 5% 1/10W
R114	1-216-089-91	s RES, CHIP 47K 5% 1/10W
R204	1-215-451-00	s METAL 18K 1% 1/6W
R205	1-215-445-00	s METAL 10K 1% 1/6W
R206	1-247-883-00	s CARBON 150K 5% 1/4W
R207	1-249-393-11	s CARBON 10 5% 1/4W
R208	1-249-441-11	s CARBON 100K 5% 1/4W
R503	1-215-389-00	s METAL 47 1% 1/6W
R507	1-249-409-11	s CARBON 220 5% 1/4W
R510	1-249-409-11	s CARBON 220 5% 1/4W
#RB101	1-235-194-11	s RESISTOR BLOCK 4.7KX8
RB102	1-235-337-11	s RESISTOR BLOCK 22KX8
RB103	1-231-541-00	s RESISTOR BLOCK 22Kx4
RB104	1-235-332-11	s RESISTOR BLOCK 470X8
RB301	1-235-337-11	s RESISTOR BLOCK 22KX8
to RB310		
RB401	1-231-541-00	s RESISTOR BLOCK 22Kx4
RB402	1-231-509-00	s RESISTOR BLOCK 1Kx4
RB403	1-235-337-11	s RESISTOR BLOCK 22KX8
to RB407		
RB501	1-231-509-00	s RESISTOR BLOCK 1Kx4
RB502	1-235-337-11	s RESISTOR BLOCK 22KX8
RB503	1-231-541-00	s RESISTOR BLOCK 22Kx4
RB504	1-235-337-11	s RESISTOR BLOCK 22KX8
RB505	1-231-501-00	s RESISTOR BLOCK 470x4
RB601	1-235-337-11	s RESISTOR BLOCK 22KX8
RB602	1-235-337-11	s RESISTOR BLOCK 22KX8
RB603	1-231-541-00	s RESISTOR BLOCK 22Kx4
RB604	1-235-337-11	s RESISTOR BLOCK 22KX8
RB605	1-235-332-11	s RESISTOR BLOCK 470X8
RB606	1-235-337-11	s RESISTOR BLOCK 22KX8
RB607	1-235-337-11	s RESISTOR BLOCK 22KX8
RB701	1-235-337-11	s RESISTOR BLOCK 22KX8
RB702	1-235-192-00	s RESISTOR BLOCK 1KX8
RB703	1-235-332-11	s RESISTOR BLOCK 470X8
S102	1-570-266-11	s SWITCH, PUSH (1 KEY)
S501	1-554-937-11	s SWITCH, PUSH
S502	1-570-623-11	s SWITCH, DIP 8-CKT
S601	1-570-623-11	s SWITCH, DIP 8-CKT
S602	1-570-623-11	s SWITCH, DIP 8-CKT
SW101	1-554-937-11	s SWITCH, PUSH

(CPU-145 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
X101	1-577-258-11	s CRYSTAL, 32MHz
X501	1-567-865-11	s CRYSTAL, 12.00MHz

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

IF-413 BOARD/CONSOLE

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-416-A	o MOUNTED CIRCUIT BOARD, IF-413
6pcs	7-682-903-01	s SCREW +PNH 3X5
C409	1-102-963-00	s CERAMIC 33PF 5% 50V
C501	1-128-126-11	s ELECT 100uF 20% 25V
C502	1-128-126-11	s ELECT 100uF 20% 25V
C503	1-128-126-11	s ELECT 100uF 20% 25V
C505	1-128-126-11	s ELECT 100uF 20% 25V
CN400	1-564-241-00	o CONNECTOR, 4P, MALE
CN401	1-506-555-11	o HEADER 40P
CN402	1-695-246-11	o HEADER (STRAIGHT) 16P
CN403	1-695-248-11	o HEADER (STRAIGHT) 26P
CN404	1-695-249-11	o HEADER (STRAIGHT) 50P
CN405	1-506-555-11	o HEADER 40P
CN406	1-506-555-11	o HEADER 40P
CN407	1-695-247-11	o HEADER (STRAIGHT) 20P
CN408	1-695-246-11	o HEADER (STRAIGHT) 16P
CN409	1-695-965-11	o HEADER (STRAIGHT) 10P
to CN413		
CP201	8-719-980-37	s DIODE DAN803
CP202	8-719-980-36	s DIODE DAP803
CP203	8-719-980-37	s DIODE DAN803
CP204	8-719-980-36	s DIODE DAP803
CP205	8-719-980-37	s DIODE DAN803
CP206	8-719-980-36	s DIODE DAP803
D401	8-719-911-19	s DIODE 1SS119
D402	8-719-911-19	s DIODE 1SS119
D403	8-719-911-19	s DIODE 1SS119
D404	8-719-911-19	s DIODE 1SS119
D501	8-719-200-02	s DIODE 10E2
FB401	1-412-694-11	s INDUCTOR, BEAD
FB402	1-412-694-11	s INDUCTOR, BEAD
FB403	1-412-694-11	s INDUCTOR, BEAD
FL201	1-236-163-11	S ENCAPSULATED COMPONENT
to FL224		
IC101	8-759-926-77	s IC SN74HC541NS
IC102	8-759-926-49	s IC SN74HC245NS
IC103	8-759-926-77	s IC SN74HC541NS
IC104	8-759-926-11	s IC SN74HC138NS
IC105	8-759-926-11	s IC SN74HC138NS
IC201	8-759-925-80	s IC SN74HC14NS
to IC206		
IC207	8-759-996-51	s IC CXD8125Q
IC208	8-759-106-58	s IC UPD7004C
IC209	8-759-106-58	s IC UPD7004C
IC210	8-759-106-58	s IC UPD7004C
IC301	8-759-925-80	s IC SN74HC14NS
to IC306		
IC307	8-759-996-51	s IC CXD8125Q
IC308	8-759-996-51	s IC CXD8125Q
IC309	8-759-926-76	s IC SN74HC540NS
IC310	8-759-051-53	s IC TD62381F
IC311	8-759-926-76	s IC SN74HC540NS
IC312	8-759-051-53	s IC TD62381F
IC313	8-759-926-76	s IC SN74HC540NS
IC314	8-759-051-53	s IC TD62381F
IC315	8-759-926-76	s IC SN74HC540NS
IC316	8-759-051-53	s IC TD62381F

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(IF-413 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
IC317	8-759-926-62	s IC SN74HC365ANS
IC318	8-759-051-53	s IC TD62381F
IC401	8-759-996-51	s IC CXD8125Q
IC402	8-759-925-80	s IC SN74HC14NS
IC403	8-759-925-80	s IC SN74HC14NS
IC404	8-759-926-76	s IC SN74HC540NS
IC405	8-759-051-53	s IC TD62381F
IC406	8-759-926-77	s IC SN74HC541NS
IC407	8-759-926-77	s IC SN74HC541NS
IC408	8-759-998-40	s IC SN75124NS
IC409	8-759-926-62	s IC SN74HC365ANS
IC410	8-759-926-62	s IC SN74HC365ANS
IC411	8-759-925-80	s IC SN74HC14NS
IC501	8-759-171-05	s IC UPC7805H
R410	1-215-389-00	s METAL 47 1% 1/6W
R411	1-249-425-11	s CARBON 4.7K 5% 1/4W
R412	1-249-433-11	s CARBON 22K 5% 1/4W
RB101	1-235-337-11	s RESISTOR BLOCK 22KX8
to RB104		
RB201	1-235-337-11	s RESISTOR BLOCK 22KX8
to RB204		
RB205	1-231-541-00	s RESISTOR BLOCK 22Kx4
RB301	1-235-337-11	s RESISTOR BLOCK 22KX8
RB302	1-235-337-11	s RESISTOR BLOCK 22Kx8

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

IF-414 BOARD/CONSOLE

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-414-A	o MOUNTED CIRCUIT BOARD, IF-414 (FOR DMX-B4008)
1pc	A-8275-629-A	o MOUNTED CIRCUIT BOARD, IF-414A (FOR DMX-B4016)
1pc	3-182-987-01	o BRACKET, IF-414 SW
C108	1-126-163-11	s ELECT 4.7uF 20% 50V
C109	1-126-163-11	s ELECT 4.7uF 20% 50V
C110	1-126-163-11	s ELECT 4.7uF 20% 50V
C111	1-126-163-11	s ELECT 4.7uF 20% 50V
C112	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C113	1-126-157-11	s ELECT 10uF 20% 16V
C114	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C116	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V to C133
C201	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
C202	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
C203	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V to C215
C301	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V to C319
C320	1-164-083-11	s CERAMIC 680PF 10% 50V
C401	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C403	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C404	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C405	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C406	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C407	1-126-157-11	s ELECT 10uF 20% 16V
C408	1-126-157-11	s ELECT 10uF 20% 16V
C409	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V to C414
C499	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C501	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C502	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C503	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C504	1-126-160-11	s ELECT 1uF 20% 50V
C505	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C506	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C507	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C508	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C509	1-102-963-00	s CERAMIC 33PF 5% 50V
C510	1-102-963-00	s CERAMIC 33PF 5% 50V
C511	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C512	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C513	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C514	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C515	1-124-257-00	s ELECT 2.2uF 20% 50V
C516	1-124-257-00	s ELECT 2.2uF 20% 50V
C517	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V to C527
C528	1-164-087-11	s CERAMIC 0.0015uF 10% 50V to C552
C553	1-164-096-11	s CERAMIC 0.01uF 50V to C592
C593	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C601	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V to C625

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(IF-414 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
C626	1-130-483-00	s MYLAR 0.01uF 5% 50V
C627	1-130-483-00	s MYLAR 0.01uF 5% 50V
C628	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V to C636
C637	1-124-584-00	s ELECT 100uF 20% 10V
C638	1-124-584-00	s ELECT 100uF 20% 10V
C639	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C640	1-163-227-11	s CERAMIC, CHIP 10PF 5% 50V to C644
C701	1-126-935-11	s ELECT 470uF 20% 16V
C702	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C703	1-126-941-11	s ELECT 470uF 20% 25V
C704	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
CN311	1-563-137-11	s CONNECTOR, D-SUB 9P, FEMALE
CN312	1-563-137-11	s CONNECTOR, D-SUB 9P, FEMALE
CN331	1-695-249-11	o HEADER (STRAIGHT) 50P
CN332	1-506-555-11	o HEADER 40P
CN333	1-506-555-11	o HEADER 40P
CN341	1-695-965-11	o HEADER (STRAIGHT) 10P
CN342	1-564-002-11	s PIN, CONNECTOR 3P
CN351	1-563-018-11	o CONNECTOR, F.P.C 34P
CN352	1-563-018-11	o CONNECTOR, F.P.C 34P
CN353	1-564-411-11	o PIN, CONNECTOR 50P
CN361	1-695-247-11	o HEADER (STRAIGHT) 20P
CN362	1-695-246-11	o HEADER (STRAIGHT) 16P
CN371	1-564-241-00	o CONNECTOR, 4P, MALE
CNI115	1-526-816-21	s SOCKET, IC (DP) 24P
CNI116	1-526-816-21	s SOCKET, IC (DP) 24P
CNI117	1-526-816-21	s SOCKET, IC (DP) 24P
CNI118	1-526-816-21	s SOCKET, IC (DP) 24P
CNI119	1-526-656-00	s SOCKET, IC (DP) 20P
CNI201	1-526-662-21	o SOCKET, IC (DP) 40P
CNI202	1-526-662-21	o SOCKET, IC (DP) 40P
CNI203	1-526-662-21	o SOCKET, IC (DP) 40P
CNI204	1-526-662-21	o SOCKET, IC (DP) 40P
CNI502	1-526-659-00	o SOCKET, IC 28P
CNI511	1-526-656-00	s SOCKET, IC (DP) 20P
CNI601	1-540-080-11	s SOCKET, IC (IC113) 68P
CNI602	1-540-080-11	s SOCKET, IC (IC113) 68P
COP101	1-562-579-11	s RECEPTACLE, CONNECTOR 2P
COP201	1-562-579-11	s RECEPTACLE, CONNECTOR 2P
COP202	1-562-579-11	s RECEPTACLE, CONNECTOR 2P
COP203	1-562-579-11	s RECEPTACLE, CONNECTOR 2P
COP204	1-562-579-11	s RECEPTACLE, CONNECTOR 2P
D100	8-719-812-31	s LED TLR123, RED
D101	8-719-812-31	s LED TLR123, RED
D102	8-719-812-43	s LED TLG124A, GRN to D109
D201	8-719-987-87	s DIODE ERA85-009
D401	8-719-911-19	s DIODE ISS119 to D416
D417	8-719-812-43	s LED TLG124A, GRN to D424
D425	8-719-200-02	s DIODE 10E2
D501	8-719-911-19	s DIODE ISS119
D502	8-719-812-43	s LED TLG124A, GRN
D503	8-719-812-43	s LED TLG124A, GRN

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(IF-414 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
D504	8-719-812-43 s	LED TLG124A, GRN
D505	8-719-812-43 s	LED TLG124A, GRN
D506	8-719-911-19 s	DIODE 1SS119
D507	8-719-911-19 s	DIODE 1SS119
D601	8-719-911-19 s	DIODE 1SS119
D602	8-719-911-19 s	DIODE 1SS119
D603	8-719-911-19 s	DIODE 1SS119
D604	8-719-911-19 s	DIODE 1SS119
FB601 to FB605	1-216-021-00 s	METAL, CHIP 68 5% 1/10W
IC101	8-759-194-86 s	IC MC68302FC16C
IC102	8-759-972-58 s	IC MAX238CNG
IC103	8-759-989-91 s	IC TL7705ACPS
IC104	8-759-244-12 s	IC TC74AC175F
IC105	8-759-926-23 s	IC SN74HC163NS
IC106	8-759-926-23 s	IC SN74HC163NS
IC107	8-759-926-77 s	IC SN74HC541NS
IC108	8-759-926-54 s	IC SN74HC259ANS
IC109	8-759-033-10 s	IC MC74F32M
IC110	8-759-033-02 s	IC MC74F04M
IC111	8-759-239-92 s	IC TC74HC07AF
IC112	8-759-925-76 s	IC SN74HC08NS
IC113	8-759-925-80 s	IC SN74HC14NS
IC114	8-759-929-73 s	IC SN74LS00NS
IC115	8-759-247-74 o	IC 22V10B-4MDEC-V1.0
IC116	8-759-247-75 o	IC 22V10B-IOPDEC-V1.0
IC117	8-759-247-76 o	IC 22V10B-PSEL-V1.0
IC118	8-759-247-77 o	IC 22V10B-IOSEL-V1.0
IC119	8-759-247-78 o	IC 16V8B-IORW-V1.0
IC201	8-759-274-97 o	IC 27C4002-PNLAPL-V1.00 (FOR DMX-B4008)
	8-759-262-19 o	IC 27C4002-ELAP16-V1.00 (FOR DMX-B4016)
IC202	8-759-247-98 o	IC 27C4002-PNLDATA-V1.00 (FOR DMX-B4008)
	8-759-262-08 o	IC 27C4002-ELDT16-V1.00 (FOR DMX-B4016)
IC205 to IC212	8-752-365-27 s	IC CXK581000AM-70LL-TL
IC213	8-759-982-65 s	IC ICL7665SCPA
IC301	8-759-033-44 s	IC MC74F245M
IC302	8-759-033-44 s	IC MC74F245M
IC303	8-759-993-54 s	IC 74F541SJ
IC304	8-759-993-54 s	IC 74F541SJ
IC305	8-759-993-54 s	IC 74F541SJ
IC306	8-759-926-77 s	IC SN74HC541NS
IC307	8-759-033-03 s	IC MC74F08M
IC308	8-759-993-54 s	IC 74F541SJ
to IC313		
IC314	8-759-033-44 s	IC MC74F245M
IC315	8-759-033-44 s	IC MC74F245M
IC316	8-759-033-44 s	IC MC74F245M
IC317	8-759-993-54 s	IC 74F541SJ
IC318	8-759-993-54 s	IC 74F541SJ
IC319	8-759-232-20 s	IC TC74HC21AF
IC401	8-759-926-11 s	IC SN74HC138NS
IC402	8-759-234-67 s	IC TMP82C79M-2

(IF-414 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
IC403	8-759-925-74 s	IC TC74HC04NS
IC404	8-759-106-58 s	IC UPD7004C
IC405	8-759-171-05 s	IC UPC7805H
IC406	8-759-926-77 s	IC SN74HC541NS
IC407	8-759-926-82 s	IC SN74HC574ANS
IC408	8-759-926-77 s	IC SN74HC541NS
IC409	8-759-926-77 s	IC SN74HC541NS
IC410	8-759-925-85 s	IC SN74HC32NS
IC501	8-759-973-43 s	IC MB8421-90LPFQ
IC502	8-759-274-99 o	IC 27C256B-TPLNK-V1.00
IC503	8-759-144-67 s	IC UPD43256AGU-12L
IC504	8-759-246-66 s	IC TMP284C015BF-6
IC506	8-759-925-85 s	IC SN74HC32NS
IC507	8-759-925-74 s	IC TC74HC04NS
IC508	8-759-926-07 s	IC SN74HC132NS
IC509	8-759-926-23 s	IC SN74HC163NS
IC510	8-759-926-74 s	IC SN74HC393NS
IC511	8-759-247-79 o	IC 16V8B-ZDEC-V1.0
IC513	8-759-925-76 s	IC SN74HC08NS
IC514	8-759-926-82 s	IC SN74HC574ANS
IC515	8-759-926-11 s	IC SN74HC138NS
IC516	8-759-930-48 s	IC SN74LS156NS
IC517	8-759-930-48 s	IC SN74LS156NS
IC518	8-759-930-48 s	IC SN74LS156NS
IC519	8-759-930-48 s	IC SN74LS156NS
IC520 to IC525	8-759-926-44 s	IC SN74HC240ANS
IC526	8-759-239-55 s	IC TC74HC123AF
IC601	8-759-322-47 s	IC HD63484CP8
IC602	8-759-322-07 s	IC HD63487CP
IC603	8-759-247-02 s	IC HM514402BZ-8
IC604	8-759-247-02 s	IC HM514402BZ-8
IC607	8-759-926-82 s	IC SN74HC574ANS
IC608	8-759-992-78 s	IC 74F257ASJ
IC609	8-759-033-10 s	IC MC74F32M
IC610	8-759-033-02 s	IC MC74F04M
IC612	8-759-035-97 s	IC MC74F803N
IC613	8-759-990-68 s	IC 74F574SJ
IC614	8-759-993-54 s	IC 74F541SJ
IC615	8-759-181-88 s	IC 74F164ASJ
IC616	8-759-181-88 s	IC 74F164ASJ
IC617	8-759-992-29 s	IC 74F151ASJ
IC618	8-759-992-29 s	IC 74F151ASJ
IC619	8-759-990-68 s	IC 74F574SJ
IC620 to IC625	8-759-992-34 s	IC 74F161ASJ
IC626	8-759-929-86 s	IC SN74LS14NS
IC627	8-759-925-90 s	IC SN74HC74NS
IC628	8-759-948-03 s	IC 74F175SJ
IC629	8-759-181-88 s	IC 74F164ASJ
IC630	8-759-993-16 s	IC 74F379SJ
IC631	8-759-948-59 s	IC 74F163ASJ
IC632	8-759-991-85 s	IC 74F00SJ
IC633	8-759-993-54 s	IC 74F541SJ
JW100	1-564-947-21 o	PIN, SHORTING, 2P
JW101	1-564-947-21 o	PIN, SHORTING, 2P
JW102	1-564-947-21 o	PIN, SHORTING, 2P
JW201	1-564-947-21 o	PIN, SHORTING, 2P

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(IF-414 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
JW202	1-564-947-21	o PIN, SHORTING, 2P
JW203	1-564-947-21	o PIN, SHORTING, 2P
JW204	1-564-947-21	o PIN, SHORTING, 2P
JW601	1-564-947-21	o PIN, SHORTING, 2P
R114	1-249-411-11	s CARBON 330 5% 1/4W
R115	1-249-411-11	s CARBON 330 5% 1/4W
R116	1-249-411-11	s CARBON 330 5% 1/4W
R117	1-249-411-11	s CARBON 330 5% 1/4W
R118	1-249-425-11	s CARBON 4.7K 5% 1/4W
R119	1-249-425-11	s CARBON 4.7K 5% 1/4W
R120	1-249-425-11	s CARBON 4.7K 5% 1/4W
R121	1-249-411-11	s CARBON 330 5% 1/4W
R122	1-249-411-11	s CARBON 330 5% 1/4W
R123	1-249-429-11	s CARBON 10K 5% 1/4W
R124	1-249-429-11	s CARBON 10K 5% 1/4W
R201	1-249-429-11	s CARBON 10K 5% 1/4W
R202	1-249-429-11	s CARBON 10K 5% 1/4W
R203	1-249-429-11	s CARBON 10K 5% 1/4W
R204	1-249-429-11	s CARBON 10K 5% 1/4W
R205	1-215-451-00	s METAL 18K 1% 1/6W
R206	1-215-445-00	s METAL 10K 1% 1/6W
R207	1-247-883-00	s CARBON 150K 5% 1/4W
R208	1-249-393-11	s CARBON 10 5% 1/4W
R209	1-249-441-11	s CARBON 100K 5% 1/4W
R308	1-249-429-11	s CARBON 10K 5% 1/4W
R309	1-249-425-11	s CARBON 4.7K 5% 1/4W
R311	1-249-425-11	s CARBON 4.7K 5% 1/4W
R313	1-249-393-11	s CARBON 10 5% 1/4W
R314	1-249-393-11	s CARBON 10 5% 1/4W
R315	1-249-393-11	s CARBON 10 5% 1/4W
R503	1-249-429-11	s CARBON 10K 5% 1/4W
R504	1-249-435-11	s CARBON 33K 5% 1/4W
R505	1-249-429-11	s CARBON 10K 5% 1/4W
R506	1-249-409-11	s CARBON 220 5% 1/4W
R507	1-249-433-11	s CARBON 22K 5% 1/4W
R601	1-249-429-11	s CARBON 10K 5% 1/4W
R602	1-249-425-11	s CARBON 4.7K 5% 1/4W
R603	1-249-425-11	s CARBON 4.7K 5% 1/4W
#RB101	1-235-194-11	s RESISTOR BLOCK 4.7KX8
RB102	1-235-337-11	s RESISTOR BLOCK 22KX8
RB103	1-235-337-11	s RESISTOR BLOCK 22KX8
RB104	1-235-332-11	s RESISTOR BLOCK 470X8
RB105	1-231-533-00	s RESISTOR BLOCK 10Kx4
RB301 to RB305	1-235-195-00	s RESISTOR BLOCK 10KX8
RB401	1-235-337-11	s RESISTOR BLOCK 22KX8
RB402	1-235-195-00	s RESISTOR BLOCK 10KX8
RB403	1-235-332-11	s RESISTOR BLOCK 470X8
RB404	1-235-195-00	s RESISTOR BLOCK 10KX8
RB501	1-235-195-00	s RESISTOR BLOCK 10KX8
RB502	1-235-195-00	s RESISTOR BLOCK 10KX8
RB503	1-235-332-11	s RESISTOR BLOCK 470X8
RB504	1-235-196-00	s RESISTOR BLOCK 100Kx8
RB505	1-235-196-00	s RESISTOR BLOCK 100Kx8
RB506	1-235-196-00	s RESISTOR BLOCK 100Kx8
RB507	1-235-196-00	s RESISTOR BLOCK 100Kx8
RB508 to RB512	1-235-341-11	s RESISTOR BLOCK 220KX8

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(IF-414 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
RB602	1-235-195-00	s RESISTOR BLOCK 10KX8
RB603	1-235-195-00	s RESISTOR BLOCK 10KX8
RB604	1-235-195-00	s RESISTOR BLOCK 10KX8
S101	1-554-937-11	s SWITCH, PUSH
S102	1-570-266-11	s SWITCH, PUSH (1 KEY)
S103	1-570-623-11	s SWITCH, DIP 8-CKT
S401 to S408	1-692-813-11	s SWITCH, ROTATIONAL PULSE
S409	1-570-623-11	s SWITCH, DIP 8-CKT
S501	1-554-937-11	s SWITCH, PUSH
S502	1-570-623-11	s SWITCH, DIP 8-CKT
S601 to S606	1-554-080-00	s SWITCH, DIGITAL
SP501	1-529-025-00	s BUZZER
X101	1-577-258-11	s CRYSTAL, 32MHz
X501	1-567-865-11	s CRYSTAL, 12.00MHz
X601	1-578-074-11	s CRYSTAL, 40MHz

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

KY-225 BOARD/CONSOLE

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-405-A	o MOUNTED CIRCUIT BOARD, KY-225
1pc	3-182-953-02	o FILM, MUTE
8pcs	4-927-278-01	s KEY TOP
C109	1-126-940-11	s ELECT 330uF 20% 25V
C110	1-126-940-11	s ELECT 330uF 20% 25V
C401	1-126-935-11	s ELECT 470uF 20% 16V
C403	1-126-941-11	s ELECT 470uF 20% 25V
C405	1-126-927-11	s ELECT 2200uF 20% 10V
CN101	1-506-555-11	o HEADER 40P
CN102	1-506-555-11	o HEADER 40P
CN103	1-560-807-00	o HEADER 60P
CN104	1-695-249-11	o HEADER (STRAIGHT) 50P
CN105	1-695-953-21	s CONNECTOR, BOARD TO BOARD 30P
CN106	1-695-953-21	s CONNECTOR, BOARD TO BOARD 30P
CN107	1-564-241-00	o CONNECTOR, 4P, MALE
D101	8-719-200-02	s DIODE 10E2
FB401	1-236-163-11	s ENCAPSULATED COMPONENT
FB402	1-236-163-11	s ENCAPSULATED COMPONENT
IC101	8-759-926-49	s IC SN74HC245NS
IC102	8-759-926-77	s IC SN74HC541NS
IC103	8-759-926-17	s IC SN74HC153NS
IC104	8-759-926-77	s IC SN74HC541NS
IC105	8-759-926-11	s IC SN74HC138NS
IC106	8-759-926-11	s IC SN74HC138NS
IC107	8-759-171-05	s IC UPC7805H
IC108	8-759-106-58	s IC UPD7004C
IC201	8-759-234-67	s IC TMP82C79M-2
IC202	8-759-159-81	s IC TD62783AF
IC203	8-759-232-86	s IC TC74HC238AF
IC204	8-759-051-53	s IC TD62381F
IC205	8-759-232-86	s IC TC74HC238AF
IC206	8-759-051-53	s IC TD62381F
IC207	8-759-925-74	s IC TC74HC04NS
IC301	8-759-996-51	s IC CXD8125Q
IC302	8-759-996-51	s IC CXD8125Q
IC303	8-759-996-51	s IC CXD8125Q
IC304	8-759-051-53	s IC TD62381F
IC305	8-759-051-53	s IC TD62381F
IC306	8-759-051-53	s IC TD62381F
IC307	8-759-051-53	s IC TD62381F
IC308	8-759-051-53	s IC TD62381F
IC501	8-759-926-98	s IC SN74HC4040NS
IC502	8-759-926-98	s IC SN74HC4040NS
IC503 to IC510	8-759-159-83	s IC DLG2416
L401	1-414-049-11	s COIL, CHOKE 400uH
R101 to R108	1-249-429-11	s CARBON 10K 5% 1/4W
R201 to R208	1-249-397-11	s CARBON 22 5% 1/4W
R301 to R308	1-249-411-11	s CARBON 330 5% 1/4W
R317 to R324	1-249-411-11	s CARBON 330 5% 1/4W

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(KY-225 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
RB101	1-231-525-00	s RESISTOR BLOCK 4.7Kx4
RB102	1-231-410-00	s RESISTOR BLOCK 10Kx8
RB201	1-231-410-00	s RESISTOR BLOCK 10Kx8
RB301 to RB306	1-231-410-00	s RESISTOR BLOCK 10Kx8
S101	1-554-080-00	s SWITCH, DIGITAL
S601 to S608	1-571-656-21	s SWITCH, TACTIL
S609 to S616	1-692-823-11	s SWITCH, TACTILE

LED-156 BOARD/CONSOLE

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-406-A	o MOUNTED CIRCUIT BOARD, LED-156
CN1	1-691-942-11	s CONNECTOR, BOARD TO BOARD 30P
D1 to D64	8-719-981-33	s DIODE GL1HY51

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

MOA-7 BOARD/CONSOLE

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-417-A	o MOUNTED CIRCUIT BOARD, MOA-7A (FOR UC/EK)
1pc	A-8275-418-A	o MOUNTED CIRCUIT BOARD, MOA-7B (FOR J)
3pcs	7-682-903-01	s SCREW +PMH 3X5
3pcs	7-682-548-04	s SCREW +B 3X8
3pcs	7-684-023-04	s N 3, TYPE 2
22pcs	7-621-259-35	s SCREW +P 2.6X5
C101	1-102-106-00	s CERAMIC 100PF 10% 50V
C102	1-102-106-00	s CERAMIC 100PF 10% 50V
C103	1-124-910-11	s ELECT 47uF 20% 50V
C104	1-124-910-11	s ELECT 47uF 20% 50V
C105	1-102-106-00	s CERAMIC 100PF 10% 50V
C106	1-102-106-00	s CERAMIC 100PF 10% 50V
C107	1-126-233-11	s ELECT 22uF 20% 50V
C108	1-102-106-00	s CERAMIC 100PF 10% 50V
C109	1-102-106-00	s CERAMIC 100PF 10% 50V
C110	1-124-910-11	s ELECT 47uF 20% 50V
C111	1-124-910-11	s ELECT 47uF 20% 50V
C112	1-102-106-00	s CERAMIC 100PF 10% 50V
C113	1-102-106-00	s CERAMIC 100PF 10% 50V
C114	1-126-233-11	s ELECT 22uF 20% 50V
C115	1-124-910-11	s ELECT 47uF 20% 50V
C116	1-102-963-00	s CERAMIC 33PF 5% 50V
C117	1-126-233-11	s ELECT 22uF 20% 50V
C118	1-124-910-11	s ELECT 47uF 20% 50V
C119	1-102-963-00	s CERAMIC 33PF 5% 50V
C120	1-126-233-11	s ELECT 22uF 20% 50V
C129	1-124-915-11	s ELECT 10uF 20% 63V
C130	1-126-233-11	s ELECT 22uF 20% 50V
C131	1-124-915-11	s ELECT 10uF 20% 63V
C132	1-102-963-00	s CERAMIC 33PF 5% 50V
C133	1-124-913-11	s ELECT 470uF 20% 50V
C134	1-124-913-11	s ELECT 470uF 20% 50V
C135	1-124-915-11	s ELECT 10uF 20% 63V
C136	1-126-233-11	s ELECT 22uF 20% 50V
C137	1-124-915-11	s ELECT 10uF 20% 63V
C138	1-102-963-00	s CERAMIC 33PF 5% 50V
C139	1-124-913-11	s ELECT 470uF 20% 50V
C140	1-124-913-11	s ELECT 470uF 20% 50V
C201	1-102-106-00	s CERAMIC 100PF 10% 50V
C202	1-102-106-00	s CERAMIC 100PF 10% 50V
C203	1-124-910-11	s ELECT 47uF 20% 50V
C204	1-124-910-11	s ELECT 47uF 20% 50V
C205	1-102-106-00	s CERAMIC 100PF 10% 50V
C206	1-102-106-00	s CERAMIC 100PF 10% 50V
C207	1-126-233-11	s ELECT 22uF 20% 50V
C208	1-102-106-00	s CERAMIC 100PF 10% 50V
C209	1-102-106-00	s CERAMIC 100PF 10% 50V
C210	1-124-910-11	s ELECT 47uF 20% 50V
C211	1-124-910-11	s ELECT 47uF 20% 50V
C212	1-102-106-00	s CERAMIC 100PF 10% 50V
C213	1-102-106-00	s CERAMIC 100PF 10% 50V
C214	1-126-233-11	s ELECT 22uF 20% 50V
C215	1-124-910-11	s ELECT 47uF 20% 50V
C216	1-102-963-00	s CERAMIC 33PF 5% 50V
C217	1-126-233-11	s ELECT 22uF 20% 50V
C218	1-124-910-11	s ELECT 47uF 20% 50V

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(MOA-7 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
C219	1-102-963-00	s CERAMIC 33PF 5% 50V
C220	1-126-233-11	s ELECT 22uF 20% 50V
C225	1-124-915-11	s ELECT 10uF 20% 63V
C226	1-126-233-11	s ELECT 22uF 20% 50V
C227	1-124-915-11	s ELECT 10uF 20% 63V
C228	1-102-963-00	s CERAMIC 33PF 5% 50V
C229	1-124-913-11	s ELECT 470uF 20% 50V
C230	1-124-913-11	s ELECT 470uF 20% 50V
C231	1-124-915-11	s ELECT 10uF 20% 63V
C232	1-126-233-11	s ELECT 22uF 20% 50V
C233	1-124-915-11	s ELECT 10uF 20% 63V
C234	1-102-963-00	s CERAMIC 33PF 5% 50V
C235	1-124-913-11	s ELECT 470uF 20% 50V
C236	1-124-913-11	s ELECT 470uF 20% 50V
C237	1-124-915-11	s ELECT 10uF 20% 63V
C238	1-102-963-00	s CERAMIC 33PF 5% 50V
C239	1-126-934-11	s ELECT 220uF 20% 16V
C240	1-126-934-11	s ELECT 220uF 20% 16V
C241	1-124-915-11	s ELECT 10uF 20% 63V
C242	1-102-963-00	s CERAMIC 33PF 5% 50V
C243	1-126-934-11	s ELECT 220uF 20% 16V
C244	1-126-934-11	s ELECT 220uF 20% 16V
C301	1-102-106-00	s CERAMIC 100PF 10% 50V
C302	1-102-106-00	s CERAMIC 100PF 10% 50V
C303	1-124-910-11	s ELECT 47uF 20% 50V
C304	1-124-910-11	s ELECT 47uF 20% 50V
C305	1-102-106-00	s CERAMIC 100PF 10% 50V
C306	1-102-106-00	s CERAMIC 100PF 10% 50V
C307	1-126-233-11	s ELECT 22uF 20% 50V
C308	1-102-106-00	s CERAMIC 100PF 10% 50V
C309	1-102-106-00	s CERAMIC 100PF 10% 50V
C310	1-124-910-11	s ELECT 47uF 20% 50V
C311	1-124-910-11	s ELECT 47uF 20% 50V
C312	1-102-106-00	s CERAMIC 100PF 10% 50V
C313	1-102-106-00	s CERAMIC 100PF 10% 50V
C314	1-126-233-11	s ELECT 22uF 20% 50V
C315	1-102-106-00	s CERAMIC 100PF 10% 50V
C316	1-102-106-00	s CERAMIC 100PF 10% 50V
C317	1-124-910-11	s ELECT 47uF 20% 50V
C318	1-124-910-11	s ELECT 47uF 20% 50V
C319	1-102-106-00	s CERAMIC 100PF 10% 50V
C320	1-102-106-00	s CERAMIC 100PF 10% 50V
C321	1-126-233-11	s ELECT 22uF 20% 50V
C322	1-102-106-00	s CERAMIC 100PF 10% 50V
C323	1-102-106-00	s CERAMIC 100PF 10% 50V
C324	1-124-910-11	s ELECT 47uF 20% 50V
C325	1-124-910-11	s ELECT 47uF 20% 50V
C326	1-102-106-00	s CERAMIC 100PF 10% 50V
C327	1-102-106-00	s CERAMIC 100PF 10% 50V
C328	1-126-233-11	s ELECT 22uF 20% 50V
C333	1-124-915-11	s ELECT 10uF 20% 63V
C334	1-126-233-11	s ELECT 22uF 20% 50V
C335	1-124-915-11	s ELECT 10uF 20% 63V
C336	1-102-963-00	s CERAMIC 33PF 5% 50V
C337	1-124-913-11	s ELECT 470uF 20% 50V
C338	1-124-913-11	s ELECT 470uF 20% 50V
C339	1-124-915-11	s ELECT 10uF 20% 63V
C340	1-126-233-11	s ELECT 22uF 20% 50V
C341	1-124-915-11	s ELECT 10uF 20% 63V

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(MOA-7 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
C342	1-102-963-00	s CERAMIC 33PF 5% 50V
C343	1-124-913-11	s ELECT 470uF 20% 50V
C344	1-124-913-11	s ELECT 470uF 20% 50V
C401	1-124-910-11	s ELECT 47uF 20% 50V
C402	1-102-963-00	s CERAMIC 33PF 5% 50V
C403	1-102-963-00	s CERAMIC 33PF 5% 50V
C404	1-126-233-11	s ELECT 22uF 20% 50V
C405	1-124-910-11	s ELECT 47uF 20% 50V
C406	1-102-963-00	s CERAMIC 33PF 5% 50V
C407	1-102-963-00	s CERAMIC 33PF 5% 50V
C408	1-126-233-11	s ELECT 22uF 20% 50V
C417	1-124-915-11	s ELECT 10uF 20% 63V
C418	1-102-963-00	s CERAMIC 33PF 5% 50V
C419	1-124-915-11	s ELECT 10uF 20% 63V
C420	1-102-963-00	s CERAMIC 33PF 5% 50V
C501	1-102-106-00	s CERAMIC 100PF 10% 50V
C502	1-102-106-00	s CERAMIC 100PF 10% 50V
C503	1-126-022-11	s ELECT 47uF 20% 25V
C504	1-126-022-11	s ELECT 47uF 20% 25V
C505	1-102-106-00	s CERAMIC 100PF 10% 50V
C506	1-102-106-00	s CERAMIC 100PF 10% 50V
C507	1-124-248-00	s ELECT 22uF 20% 35V
C508	1-102-106-00	s CERAMIC 100PF 10% 50V
C509	1-102-106-00	s CERAMIC 100PF 10% 50V
C510	1-126-022-11	s ELECT 47uF 20% 25V
C511	1-126-022-11	s ELECT 47uF 20% 25V
C512	1-102-106-00	s CERAMIC 100PF 10% 50V
C513	1-102-106-00	s CERAMIC 100PF 10% 50V
C514	1-124-248-00	s ELECT 22uF 20% 35V
C517	1-102-106-00	s CERAMIC 100PF 10% 50V
C518	1-102-106-00	s CERAMIC 100PF 10% 50V
C519	1-126-022-11	s ELECT 47uF 20% 25V
C520	1-126-022-11	s ELECT 47uF 20% 25V
C521	1-102-106-00	s CERAMIC 100PF 10% 50V
C522	1-102-106-00	s CERAMIC 100PF 10% 50V
C523	1-124-248-00	s ELECT 22uF 20% 35V
C524	1-126-096-11	s ELECT 10uF 20% 35V
C525	1-102-963-00	s CERAMIC 33PF 5% 50V
C526	1-124-248-00	s ELECT 22uF 20% 35V
C527	1-102-106-00	s CERAMIC 100PF 10% 50V
C528	1-102-106-00	s CERAMIC 100PF 10% 50V
C529	1-126-022-11	s ELECT 47uF 20% 25V
C530	1-126-022-11	s ELECT 47uF 20% 25V
C531	1-102-106-00	s CERAMIC 100PF 10% 50V
C532	1-102-106-00	s CERAMIC 100PF 10% 50V
C533	1-124-248-00	s ELECT 22uF 20% 35V
C534	1-126-096-11	s ELECT 10uF 20% 35V
C535	1-102-963-00	s CERAMIC 33PF 5% 50V
C536	1-124-248-00	s ELECT 22uF 20% 35V
C601	1-124-248-00	s ELECT 22uF 20% 35V
C603	1-102-106-00	s CERAMIC 100PF 10% 50V
C604	1-126-022-11	s ELECT 47uF 20% 25V
C605	1-126-096-11	s ELECT 10uF 20% 35V
C606	1-126-160-11	s ELECT 1uF 20% 50V
C607	1-130-489-00	s MYLAR 0.033uF 5% 50V
C608	1-126-022-11	s ELECT 47uF 20% 25V
C609	1-102-106-00	s CERAMIC 100PF 10% 50V
C610	1-102-106-00	s CERAMIC 100PF 10% 50V
C611	1-126-022-11	s ELECT 47uF 20% 25V

(MOA-7 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
C612	1-126-022-11	s ELECT 47uF 20% 25V
C613	1-102-106-00	s CERAMIC 100PF 10% 50V
C614	1-102-106-00	s CERAMIC 100PF 10% 50V
C615	1-124-248-00	s ELECT 22uF 20% 35V
C618	1-124-248-00	s ELECT 22uF 20% 35V
C619	1-102-963-00	s CERAMIC 33PF 5% 50V
C620	1-124-248-00	s ELECT 22uF 20% 35V
C621	1-126-022-11	s ELECT 47uF 20% 25V
C622	1-102-963-00	s CERAMIC 33PF 5% 50V
C623	1-124-248-00	s ELECT 22uF 20% 35V
C626	1-126-096-11	s ELECT 10uF 20% 35V
C627	1-102-963-00	s CERAMIC 33PF 5% 50V
C628	1-126-934-11	s ELECT 220uF 20% 16V
C629	1-126-934-11	s ELECT 220uF 20% 16V
C630	1-126-096-11	s ELECT 10uF 20% 35V
C631	1-102-963-00	s CERAMIC 33PF 5% 50V
C632	1-126-934-11	s ELECT 220uF 20% 16V
C633	1-126-934-11	s ELECT 220uF 20% 16V
C634	1-126-096-11	s ELECT 10uF 20% 35V
C635	1-102-963-00	s CERAMIC 33PF 5% 50V
C636	1-126-934-11	s ELECT 220uF 20% 16V
C637	1-126-934-11	s ELECT 220uF 20% 16V
C638	1-126-096-11	s ELECT 10uF 20% 35V
C639	1-102-963-00	s CERAMIC 33PF 5% 50V
C640	1-124-248-00	s ELECT 22uF 20% 35V
C701	1-102-106-00	s CERAMIC 100PF 10% 50V
C702	1-102-106-00	s CERAMIC 100PF 10% 50V
C703	1-126-022-11	s ELECT 47uF 20% 25V
C704	1-126-022-11	s ELECT 47uF 20% 25V
C705	1-102-106-00	s CERAMIC 100PF 10% 50V
C706	1-102-106-00	s CERAMIC 100PF 10% 50V
C707	1-124-248-00	s ELECT 22uF 20% 35V
C708	1-102-106-00	s CERAMIC 100PF 10% 50V
C709	1-102-106-00	s CERAMIC 100PF 10% 50V
C710	1-126-022-11	s ELECT 47uF 20% 25V
C711	1-126-022-11	s ELECT 47uF 20% 25V
C712	1-102-106-00	s CERAMIC 100PF 10% 50V
C713	1-102-106-00	s CERAMIC 100PF 10% 50V
C714	1-124-248-00	s ELECT 22uF 20% 35V
C715	1-126-022-11	s ELECT 47uF 20% 25V
C716	1-102-106-00	s CERAMIC 100PF 10% 50V
C717	1-124-248-00	s ELECT 22uF 20% 35V
C718	1-126-022-11	s ELECT 47uF 20% 25V
C719	1-102-106-00	s CERAMIC 100PF 10% 50V
C720	1-124-248-00	s ELECT 22uF 20% 35V
C729	1-126-022-11	s ELECT 47uF 20% 25V
C730	1-102-963-00	s CERAMIC 33PF 5% 50V
C731	1-124-248-00	s ELECT 22uF 20% 35V
C732	1-126-096-11	s ELECT 10uF 20% 35V
C733	1-124-248-00	s ELECT 22uF 20% 35V
C734	1-124-248-00	s ELECT 22uF 20% 35V
C735	1-102-963-00	s CERAMIC 33PF 5% 50V
C736	1-124-248-00	s ELECT 22uF 20% 35V
C737	1-124-248-00	s ELECT 22uF 20% 35V
C738	1-102-963-00	s CERAMIC 33PF 5% 50V
C739	1-124-248-00	s ELECT 22uF 20% 35V
C740	1-126-096-11	s ELECT 10uF 20% 35V
C741	1-124-257-00	s ELECT 2.2uF 20% 50V
C742	1-130-499-00	s MYLAR 0.22uF 5% 50V

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(MOA-7 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
C749	1-126-934-11	s ELECT 220uF 20% 16V
C790	1-126-934-11	s ELECT 220uF 20% 16V
C804	1-126-096-11	s ELECT 10uF 20% 35V
#C826	1-161-485-00	s CERAMIC 0.1uF 50V
C901	1-124-911-11	s ELECT 220uF 20% 50V
C903	1-124-911-11	s ELECT 220uF 20% 50V
C905	1-124-911-11	s ELECT 220uF 20% 50V
C907	1-124-911-11	s ELECT 220uF 20% 50V
C909	1-126-934-11	s ELECT 220uF 20% 16V
C911	1-126-934-11	s ELECT 220uF 20% 16V
C951 to C975	1-162-896-11	s CERAMIC 0.01uF 10% 50V
CN1	1-568-005-11	s CONNECTOR, XLR 3P, FEMALE (FOR UC/EK)
CN1	1-568-006-11	s CONNECTOR, XLR 3P, MALE (FOR J)
CN2	1-568-005-11	s CONNECTOR, XLR 3P, FEMALE (FOR UC/EK)
CN2	1-568-006-11	s CONNECTOR, XLR 3P, MALE (FOR J)
CN3	1-568-005-11	s CONNECTOR, XLR 3P, FEMALE (FOR UC/EK)
CN3	1-568-006-11	s CONNECTOR, XLR 3P, MALE (FOR J)
CN4	1-568-005-11	s CONNECTOR, XLR 3P, FEMALE (FOR UC/EK)
CN4	1-568-006-11	s CONNECTOR, XLR 3P, MALE (FOR J)
CN5	1-568-005-11	s CONNECTOR, XLR 3P, FEMALE (FOR UC/EK)
CN5	1-568-006-11	s CONNECTOR, XLR 3P, MALE (FOR J)
CN6	1-568-005-11	s CONNECTOR, XLR 3P, FEMALE (FOR UC/EK)
CN6	1-568-006-11	s CONNECTOR, XLR 3P, MALE (FOR J)
CN7	1-568-005-11	s CONNECTOR, XLR 3P, FEMALE (FOR UC/EK)
CN7	1-568-006-11	s CONNECTOR, XLR 3P, MALE (FOR J)
CN8	1-568-005-11	s CONNECTOR, XLR 3P, FEMALE (FOR UC/EK)
CN8	1-568-006-11	s CONNECTOR, XLR 3P, MALE (FOR J)
CN9	1-568-005-11	s CONNECTOR, XLR 3P, FEMALE (FOR UC/EK)
CN9	1-568-006-11	s CONNECTOR, XLR 3P, MALE (FOR J)
CN10	1-568-005-11	s CONNECTOR, XLR 3P, FEMALE (FOR UC/EK)
CN10	1-568-006-11	s CONNECTOR, XLR 3P, MALE (FOR J)
CN11	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN500	1-564-675-11	o PIN, CONNECTOR 8P
CN501	1-560-806-00	o HEADER 34P
CN502	1-506-555-11	o HEADER 40P
CN503	1-695-248-11	o HEADER (STRAIGHT) 26P
CN504	1-569-051-11	o CONNECTOR, PS TYPE 40P, MALE
CN505	1-564-013-11	o PIN, CONNECTOR 3P
CN506	1-564-013-21	s PIN, CONNECTOR 3P
CN507	1-564-014-11	s PIN, CONNECTOR 4P
CN508	1-506-483-21	s CONNECTOR, 4P, MALE
CN509	1-506-483-21	s CONNECTOR, 4P, MALE
CN510	1-695-251-11	o HEADER (RIGHT ANGLE TYPE) 20P
CN511	1-695-250-11	o HEADER (RIGHT ANGLE TYPE) 16P

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(MOA-7 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
COP102	1-563-859-11	s PLUG, SHORTING
COP104	1-563-859-11	s PLUG, SHORTING
COP201	1-563-859-11	s PLUG, SHORTING
COP203	1-563-859-11	s PLUG, SHORTING
COP501	1-563-859-11	s PLUG, SHORTING
COP503	1-563-859-11	s PLUG, SHORTING
COP802	1-563-859-11	s PLUG, SHORTING
COP804	1-563-859-11	s PLUG, SHORTING
COP805	1-563-859-11	s PLUG, SHORTING
COP807	1-563-859-11	s PLUG, SHORTING
COP810	1-563-859-11	s PLUG, SHORTING
COP812	1-563-859-11	s PLUG, SHORTING
COP814	1-563-859-11	s PLUG, SHORTING
COP815	1-563-859-11	s PLUG, SHORTING
COP817	1-563-859-11	s PLUG, SHORTING
COP820	1-563-859-11	s PLUG, SHORTING
COP822	1-563-859-11	s PLUG, SHORTING
COP823	1-563-859-11	s PLUG, SHORTING
D601	8-719-911-19	s DIODE 1SS119
D602	8-719-911-19	s DIODE 1SS119
D801	8-719-911-19	s DIODE 1SS119
to D808		
D901	8-719-200-02	s DIODE 10E2
D902	8-719-200-02	s DIODE 10E2
FL101	1-236-163-11	s ENCAPSULATED COMPONENT (FOR J)
FL102	1-236-163-11	s ENCAPSULATED COMPONENT (FOR UC/EK)
FL103	1-236-163-11	s ENCAPSULATED COMPONENT
FL104	1-236-163-11	s ENCAPSULATED COMPONENT (FOR J)
FL105	1-236-163-11	s ENCAPSULATED COMPONENT (FOR UC/EK)
FL106	1-236-163-11	s ENCAPSULATED COMPONENT
FL107	1-236-163-11	s ENCAPSULATED COMPONENT (FOR J)
FL108	1-236-163-11	s ENCAPSULATED COMPONENT (FOR UC/EK)
FL109	1-236-163-11	s ENCAPSULATED COMPONENT
FL110	1-236-163-11	s ENCAPSULATED COMPONENT (FOR J)
FL111	1-236-163-11	s ENCAPSULATED COMPONENT (FOR UC/EK)
FL112	1-236-163-11	s ENCAPSULATED COMPONENT
FL201	1-236-163-11	s ENCAPSULATED COMPONENT (FOR J)
FL202	1-236-163-11	s ENCAPSULATED COMPONENT (FOR UC/EK)
FL203	1-236-163-11	s ENCAPSULATED COMPONENT
FL204	1-236-163-11	s ENCAPSULATED COMPONENT (FOR J)
FL205	1-236-163-11	s ENCAPSULATED COMPONENT (FOR UC/EK)
FL206	1-236-163-11	s ENCAPSULATED COMPONENT
FL207	1-236-163-11	s ENCAPSULATED COMPONENT (FOR J)
FL208	1-236-163-11	s ENCAPSULATED COMPONENT (FOR UC/EK)
FL209	1-236-163-11	s ENCAPSULATED COMPONENT
FL210	1-236-163-11	s ENCAPSULATED COMPONENT (FOR J)
FL211	1-236-163-11	s ENCAPSULATED COMPONENT (FOR UC/EK)

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(MOA-7 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
FL212	1-236-163-11	s ENCAPSULATED COMPONENT
FL301	1-236-163-11	s ENCAPSULATED COMPONENT (FOR J)
FL302	1-236-163-11	s ENCAPSULATED COMPONENT (FOR UC/EK)
FL303	1-236-163-11	s ENCAPSULATED COMPONENT
FL304	1-236-163-11	s ENCAPSULATED COMPONENT (FOR J)
FL305	1-236-163-11	s ENCAPSULATED COMPONENT (FOR UC/EK)
FL306	1-236-163-11	s ENCAPSULATED COMPONENT
IC101	8-759-900-72	s IC NE5532P
IC102	8-759-900-72	s IC NE5532P
IC103	8-759-107-35	s IC UPD5201C
IC104	8-759-107-35	s IC UPD5201C
IC105	8-759-900-72	s IC NE5532P
IC106	8-759-900-72	s IC NE5532P
IC107	8-759-107-35	s IC UPD5201C
IC108	8-759-158-99	s IC SSM-2142P
IC109	8-759-158-99	s IC SSM-2142P
IC201	8-759-900-72	s IC NE5532P
IC202	8-759-900-72	s IC NE5532P
IC203	8-759-900-72	s IC NE5532P
IC204	8-759-900-72	s IC NE5532P
IC205	8-759-107-35	s IC UPD5201C
IC206	8-759-107-35	s IC UPD5201C
IC207	8-759-158-99	s IC SSM-2142P
IC208	8-759-158-99	s IC SSM-2142P
IC209	8-759-900-72	s IC NE5532P
IC210	8-759-158-99	s IC SSM-2142P
IC211	8-759-158-99	s IC SSM-2142P
IC301	8-759-900-72	s IC NE5532P
IC302	8-759-900-72	s IC NE5532P
IC303	8-759-900-72	s IC NE5532P
IC304	8-759-900-72	s IC NE5532P
IC305	8-759-107-35	s IC UPD5201C
IC306	8-759-158-99	s IC SSM-2142P
IC307	8-759-158-99	s IC SSM-2142P
IC401	8-759-107-35	s IC UPD5201C
IC402	8-759-107-35	s IC UPD5201C
IC403	8-759-900-72	s IC NE5532P
IC404	8-759-900-72	s IC NE5532P
IC405	8-759-900-72	s IC NE5532P
IC501	8-759-145-58	s IC UPC4558C
IC502	8-759-145-58	s IC UPC4558C
IC503	8-759-145-58	s IC UPC4558C
IC601	8-759-145-58	s IC UPC4558C
IC602	8-759-145-58	s IC UPC4558C
IC603	8-759-107-35	s IC UPD5201C
IC604	8-759-145-58	s IC UPC4558C
IC605	8-759-145-58	s IC UPC4558C
IC606	8-759-158-99	s IC SSM-2142P
IC607	8-759-158-99	s IC SSM-2142P
IC608	8-759-158-99	s IC SSM-2142P
IC701	8-759-145-58	s IC UPC4558C
IC702	8-759-145-58	s IC UPC4558C
IC703	8-759-107-35	s IC UPD5201C
IC704	8-759-107-35	s IC UPD5201C
IC705	8-759-145-58	s IC UPC4558C
IC706	8-759-145-58	s IC UPC4558C

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Ref. No. or Q'ty	Part No.	SP Description
IC707	8-759-107-35	s IC UPD5201C
IC708	8-759-111-73	s IC UPC1238H
IC801	8-759-291-30	s IC TC9130P
IC802	8-759-916-20	s IC SN74HC14AN
IC803	8-759-916-20	s IC SN74HC14AN
IC804	8-759-916-14	s IC SN74HC04N
IC805	8-759-234-62	s IC TC74HC4072AP
IC806	8-759-916-12	s IC SN74HC00N
IC807	8-759-916-23	s IC SN74HC27N
IC808	8-759-916-18	s IC SN74HC10N
IC809	8-759-921-82	s IC SN74HC4075N
IC810	8-759-916-14	s IC SN74HC04N
IC811	8-759-916-14	s IC SN74HC04N
IC812	8-759-916-14	s IC SN74HC04N
IC813	8-759-207-07	s IC TD62381P
IC901	8-759-013-10	s IC MC7815CT
IC902	8-759-012-72	s IC MC7915CT
JW101	1-566-388-11	s CONNECTOR 8P, MALE
JW105	1-535-303-00	o WIRE, JUMPER (FOR UC/EK)
JW106	1-535-303-00	o WIRE, JUMPER (FOR J)
JW107	1-535-303-00	o WIRE, JUMPER (FOR UC/EK)
JW108	1-535-303-00	o WIRE, JUMPER (FOR J)
JW109	1-535-303-00	o WIRE, JUMPER (FOR UC/EK)
JW110	1-535-303-00	o WIRE, JUMPER (FOR J)
JW111	1-535-303-00	o WIRE, JUMPER (FOR UC/EK)
JW112	1-535-303-00	o WIRE, JUMPER (FOR J)
JW201	1-566-388-11	s CONNECTOR 8P, MALE
JW205	1-535-303-00	o WIRE, JUMPER (FOR UC/EK)
JW206	1-535-303-00	o WIRE, JUMPER (FOR J)
JW207	1-535-303-00	o WIRE, JUMPER (FOR UC/EK)
JW208	1-535-303-00	o WIRE, JUMPER (FOR J)
JW209	1-535-303-00	o WIRE, JUMPER (FOR UC/EK)
JW210	1-535-303-00	o WIRE, JUMPER (FOR J)
JW211	1-535-303-00	o WIRE, JUMPER (FOR UC/EK)
JW212	1-535-303-00	o WIRE, JUMPER (FOR J)
JW301	1-535-303-00	o WIRE, JUMPER (FOR UC/EK)
JW302	1-535-303-00	o WIRE, JUMPER (FOR J)
JW303	1-535-303-00	o WIRE, JUMPER (FOR UC/EK)
JW304	1-535-303-00	o WIRE, JUMPER (FOR J)
JW501	1-566-388-11	s CONNECTOR 8P, MALE
JW801	1-566-388-11	s CONNECTOR 8P, MALE
JW805	1-566-388-11	s CONNECTOR 8P, MALE
JW809	1-566-391-11	o CONNECTOR 12P, MALE
JW815	1-566-388-11	s CONNECTOR 8P, MALE
JW819	1-566-388-11	s CONNECTOR 8P, MALE
JW823	1-566-388-11	s CONNECTOR 8P, MALE
Q601	8-729-203-04	s TRANSISTOR 2SK30A-GR
Q801	8-729-016-11	s TRANSISTOR 2SD1507M
Q802	8-729-016-11	s TRANSISTOR 2SD1507M
Q803	8-729-900-87	s TRANSISTOR DTC124XF
R101	1-215-456-00	s METAL 30K 1% 1/6W
R102	1-215-449-00	s METAL 15K 1% 1/6W
R103	1-215-449-00	s METAL 15K 1% 1/6W
R104	1-215-432-00	s METAL 3K 1% 1/6W
R105	1-215-432-00	s METAL 3K 1% 1/6W
R107	1-215-456-00	s METAL 30K 1% 1/6W
R108	1-215-449-00	s METAL 15K 1% 1/6W
R109	1-215-449-00	s METAL 15K 1% 1/6W

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(MOA-7 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
R110	1-215-432-00	s METAL 3K 1% 1/6W
R111	1-215-432-00	s METAL 3K 1% 1/6W
#R113 to R123	1-215-452-00	s METAL 20K 1% 1/6W
R126	1-215-413-00	s METAL 470 1% 1/6W
R129	1-215-449-00	s METAL 15K 1% 1/6W
R130	1-215-452-00	s METAL 20K 1% 1/6W
R133	1-215-416-00	s METAL 620 1% 1/6W
R135	1-215-413-00	s METAL 470 1% 1/6W
R138	1-215-449-00	s METAL 15K 1% 1/6W
R139	1-215-452-00	s METAL 20K 1% 1/6W
R142	1-215-416-00	s METAL 620 1% 1/6W
R201	1-215-456-00	s METAL 30K 1% 1/6W
R202	1-215-449-00	s METAL 15K 1% 1/6W
R203	1-215-449-00	s METAL 15K 1% 1/6W
R204	1-215-432-00	s METAL 3K 1% 1/6W
R205	1-215-432-00	s METAL 3K 1% 1/6W
R207	1-215-456-00	s METAL 30K 1% 1/6W
R208	1-215-449-00	s METAL 15K 1% 1/6W
R209	1-215-449-00	s METAL 15K 1% 1/6W
R210	1-215-432-00	s METAL 3K 1% 1/6W
R211	1-215-432-00	s METAL 3K 1% 1/6W
#R213	1-215-452-00	s METAL 20K 1% 1/6W
#R214	1-215-452-00	s METAL 20K 1% 1/6W
R215	1-215-477-00	s METAL 220K 1% 1/6W
#R216	1-215-452-00	s METAL 20K 1% 1/6W
#R218	1-215-452-00	s METAL 20K 1% 1/6W
#R219	1-215-452-00	s METAL 20K 1% 1/6W
R220	1-215-477-00	s METAL 220K 1% 1/6W
#R221	1-215-452-00	s METAL 20K 1% 1/6W
R224	1-215-413-00	s METAL 470 1% 1/6W
R227	1-215-449-00	s METAL 15K 1% 1/6W
R228	1-215-452-00	s METAL 20K 1% 1/6W
R231	1-215-416-00	s METAL 620 1% 1/6W
R233	1-215-413-00	s METAL 470 1% 1/6W
R236	1-215-449-00	s METAL 15K 1% 1/6W
R237	1-215-452-00	s METAL 20K 1% 1/6W
R240	1-215-416-00	s METAL 620 1% 1/6W
R242	1-215-449-00	s METAL 15K 1% 1/6W
R243	1-215-452-00	s METAL 20K 1% 1/6W
R247	1-215-449-00	s METAL 15K 1% 1/6W
R248	1-215-452-00	s METAL 20K 1% 1/6W
R251	1-215-416-00	s METAL 620 1% 1/6W
R252	1-215-416-00	s METAL 620 1% 1/6W
R301	1-215-456-00	s METAL 30K 1% 1/6W
R302	1-215-449-00	s METAL 15K 1% 1/6W
R303	1-215-449-00	s METAL 15K 1% 1/6W
R304	1-215-432-00	s METAL 3K 1% 1/6W
R305	1-215-432-00	s METAL 3K 1% 1/6W
R307	1-215-456-00	s METAL 30K 1% 1/6W
R308	1-215-449-00	s METAL 15K 1% 1/6W
R309	1-215-449-00	s METAL 15K 1% 1/6W
R310	1-215-432-00	s METAL 3K 1% 1/6W
R311	1-215-432-00	s METAL 3K 1% 1/6W
R313	1-215-456-00	s METAL 30K 1% 1/6W
R314	1-215-449-00	s METAL 15K 1% 1/6W
R315	1-215-449-00	s METAL 15K 1% 1/6W
R316	1-215-432-00	s METAL 3K 1% 1/6W
R317	1-215-432-00	s METAL 3K 1% 1/6W

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(MOA-7 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
R319	1-215-456-00	s METAL 30K 1% 1/6W
R320	1-215-449-00	s METAL 15K 1% 1/6W
R321	1-215-449-00	s METAL 15K 1% 1/6W
R322	1-215-432-00	s METAL 3K 1% 1/6W
R323	1-215-432-00	s METAL 3K 1% 1/6W
R326	1-215-413-00	s METAL 470 1% 1/6W
R329	1-215-449-00	s METAL 15K 1% 1/6W
R330	1-215-452-00	s METAL 20K 1% 1/6W
R333	1-215-416-00	s METAL 620 1% 1/6W
R335	1-215-413-00	s METAL 470 1% 1/6W
R338	1-215-449-00	s METAL 15K 1% 1/6W
R339	1-215-452-00	s METAL 20K 1% 1/6W
R342	1-215-416-00	s METAL 620 1% 1/6W
#R401	1-215-452-00	s METAL 20K 1% 1/6W
#R402	1-215-452-00	s METAL 20K 1% 1/6W
#R403	1-215-441-00	s METAL 6.8K 1% 1/6W
#R405	1-215-452-00	s METAL 20K 1% 1/6W
R406	1-215-445-00	s METAL 10K 1% 1/6W
R407	1-215-445-00	s METAL 10K 1% 1/6W
#R409	1-215-452-00	s METAL 20K 1% 1/6W
#R410	1-215-452-00	s METAL 20K 1% 1/6W
#R411	1-215-441-00	s METAL 6.8K 1% 1/6W
#R413	1-215-452-00	s METAL 20K 1% 1/6W
R414	1-215-445-00	s METAL 10K 1% 1/6W
R415	1-215-445-00	s METAL 10K 1% 1/6W
R418	1-215-413-00	s METAL 470 1% 1/6W
R419	1-215-437-00	s METAL 4.7K 1% 1/6W
R420	1-215-447-00	s METAL 12K 1% 1/6W
R421	1-260-083-11	s CARBON 47 5% 1/2W
R423	1-215-413-00	s METAL 470 1% 1/6W
R424	1-215-437-00	s METAL 4.7K 1% 1/6W
R425	1-215-447-00	s METAL 12K 1% 1/6W
R426	1-260-083-11	s CARBON 47 5% 1/2W
R501	1-215-456-00	s METAL 30K 1% 1/6W
R502	1-215-449-00	s METAL 15K 1% 1/6W
R503	1-215-449-00	s METAL 15K 1% 1/6W
R504	1-215-432-00	s METAL 3K 1% 1/6W
R505	1-215-432-00	s METAL 3K 1% 1/6W
R507	1-215-456-00	s METAL 30K 1% 1/6W
R508	1-215-449-00	s METAL 15K 1% 1/6W
R509	1-215-449-00	s METAL 15K 1% 1/6W
R510	1-215-432-00	s METAL 3K 1% 1/6W
R511	1-215-432-00	s METAL 3K 1% 1/6W
R513	1-215-456-00	s METAL 30K 1% 1/6W
R514	1-215-449-00	s METAL 15K 1% 1/6W
R515	1-215-449-00	s METAL 15K 1% 1/6W
R516	1-215-432-00	s METAL 3K 1% 1/6W
R517	1-215-432-00	s METAL 3K 1% 1/6W
R520	1-215-432-00	s METAL 3K 1% 1/6W
R521	1-215-449-00	s METAL 15K 1% 1/6W
R523	1-215-385-00	s METAL 33 1% 1/6W
R524	1-215-456-00	s METAL 30K 1% 1/6W
R525	1-215-449-00	s METAL 15K 1% 1/6W
R526	1-215-449-00	s METAL 15K 1% 1/6W
R527	1-215-432-00	s METAL 3K 1% 1/6W
R528	1-215-432-00	s METAL 3K 1% 1/6W
R531	1-215-432-00	s METAL 3K 1% 1/6W
R532	1-215-449-00	s METAL 15K 1% 1/6W
R534	1-215-385-00	s METAL 33 1% 1/6W

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(MOA-7 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
R601	1-215-441-00	s METAL 6.8K 1% 1/6W
R602	1-215-432-00	s METAL 3K 1% 1/6W
R603	1-215-427-00	s METAL 1.8K 1% 1/6W
R604	1-215-445-00	s METAL 10K 1% 1/6W
R605	1-215-413-00	s METAL 470 1% 1/6W
R606	1-215-480-00	s METAL 300K 1% 1/6W
R607	1-215-385-00	s METAL 33 1% 1/6W
R608	1-215-445-00	s METAL 10K 1% 1/6W
R609	1-215-444-00	s METAL 9.1K 1% 1/6W
R611	1-215-445-00	s METAL 10K 1% 1/6W
R612	1-215-456-00	s METAL 30K 1% 1/6W
R613	1-215-449-00	s METAL 15K 1% 1/6W
R614	1-215-449-00	s METAL 15K 1% 1/6W
R615	1-215-444-00	s METAL 9.1K 1% 1/6W
R616	1-215-444-00	s METAL 9.1K 1% 1/6W
R617	1-215-445-00	s METAL 10K 1% 1/6W
R618	1-215-445-00	s METAL 10K 1% 1/6W
R619	1-215-445-00	s METAL 10K 1% 1/6W
R620	1-215-457-00	s METAL 33K 1% 1/6W
R622	1-215-437-00	s METAL 4.7K 1% 1/6W
R623	1-215-464-00	s METAL 62K 1% 1/6W
R626	1-215-437-00	s METAL 4.7K 1% 1/6W
R627	1-215-464-00	s METAL 62K 1% 1/6W
R630	1-215-437-00	s METAL 4.7K 1% 1/6W
R631	1-215-464-00	s METAL 62K 1% 1/6W
R635	1-215-445-00	s METAL 10K 1% 1/6W
R636	1-215-452-00	s METAL 20K 1% 1/6W
R701	1-215-456-00	s METAL 30K 1% 1/6W
R702	1-215-449-00	s METAL 15K 1% 1/6W
R703	1-215-449-00	s METAL 15K 1% 1/6W
R704	1-215-444-00	s METAL 9.1K 1% 1/6W
R705	1-215-444-00	s METAL 9.1K 1% 1/6W
R707	1-215-456-00	s METAL 30K 1% 1/6W
R708	1-215-449-00	s METAL 15K 1% 1/6W
R709	1-215-449-00	s METAL 15K 1% 1/6W
R710	1-215-444-00	s METAL 9.1K 1% 1/6W
R711	1-215-444-00	s METAL 9.1K 1% 1/6W
#R714	1-215-445-00	s METAL 10K 1% 1/6W
#R717	1-215-438-00	s METAL 5.1K 1% 1/4W
R718	1-215-445-00	s METAL 10K 1% 1/6W
R719	1-215-445-00	s METAL 10K 1% 1/6W
R720	1-215-445-00	s METAL 10K 1% 1/6W
R721	1-215-445-00	s METAL 10K 1% 1/6W
R723	1-215-413-00	s METAL 470 1% 1/6W
R727	1-215-445-00	s METAL 10K 1% 1/6W
R728	1-215-452-00	s METAL 20K 1% 1/6W
R729	1-215-452-00	s METAL 20K 1% 1/6W
R730	1-215-445-00	s METAL 10K 1% 1/6W
R732	1-215-445-00	s METAL 10K 1% 1/6W
R733	1-215-457-00	s METAL 33K 1% 1/6W
R736	1-215-445-00	s METAL 10K 1% 1/6W
R737	1-215-445-00	s METAL 10K 1% 1/6W
R738	1-215-433-00	s METAL 3.3K 1% 1/6W
R739	1-215-445-00	s METAL 10K 1% 1/6W
R740	1-260-070-11	s CARBON 3.3 5% 1/2W
R741	1-260-070-11	s CARBON 3.3 5% 1/2W
#R742	1-215-416-00	s METAL 620 1% 1/6W
#R820	1-247-903-00	s CARBON 1M 5% 1/4W

(MOA-7 BOARD/CONSOLE)

Ref. No. or Q'ty	Part No.	SP Description
RB801	1-235-337-11	s RESISTOR BLOCK 22KX8
RB802	1-235-337-11	s RESISTOR BLOCK 22KX8
RB803	1-235-337-11	s RESISTOR BLOCK 22KX8
RV101	1-230-752-11	s RES, ADJ, CERMET 50K
RV102	1-230-752-11	s RES, ADJ, CERMET 50K
RV201	1-230-752-11	s RES, ADJ, CERMET 50K
RV202	1-230-752-11	s RES, ADJ, CERMET 50K
RV203	1-230-752-11	s RES, ADJ, CERMET 50K
RV204	1-230-752-11	s RES, ADJ, CERMET 50K
RV301	1-230-752-11	s RES, ADJ, CERMET 50K
RV302	1-230-752-11	s RES, ADJ, CERMET 50K
RV401	1-237-516-21	s RES, ADJ METAL 2K
RV402	1-237-516-21	s RES, ADJ METAL 2K
RV501	1-237-516-21	s RES, ADJ METAL 2K
RV502	1-237-516-21	s RES, ADJ METAL 2K
RV601	1-237-518-21	s RES, ADJ METAL 10K
to RV606		
RV701	1-237-518-21	s RES, ADJ METAL 10K
to RV705		
RY101	1-515-716-11	s RELAY (TQ2-5V)
RY102	1-515-716-11	s RELAY (TQ2-5V)
RY103	1-515-716-11	s RELAY (TQ2-5V)
RY104	1-515-716-11	s RELAY (TQ2-5V)
RY201	1-515-716-11	s RELAY (TQ2-5V)
RY202	1-515-716-11	s RELAY (TQ2-5V)
RY203	1-515-716-11	s RELAY (TQ2-5V)
RY204	1-515-716-11	s RELAY (TQ2-5V)
RY301	1-515-716-11	s RELAY (TQ2-5V)
RY302	1-515-716-11	s RELAY (TQ2-5V)
RY701	1-515-716-11	s RELAY (TQ2-5V)

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

PS-312 BOARD/CONSOLE

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-421-A	o MOUNTED CIRCUIT BOARD, PS-312
	3-184-523-02	o SHEET, TR
	4-030-359-01	o HEAT SINK, H. PIN
3pcs	7-682-560-04	s SCREW +B 4X6
CN901	1-564-943-11	o CONNECTOR, 12P, MALE
CN902	1-564-943-11	o CONNECTOR, 12P, MALE
CN903	1-506-599-11	o PIN, CONNECTOR (B10P-VH) 10P
	to CN908	
CN909	1-564-674-11	o CONNECTOR, 8P, MALE
CN910	1-564-241-00	o CONNECTOR, 4P, MALE
	to CN915	
CN916	1-695-965-11	o HEADER (STRAIGHT) 10P
CN917	1-564-241-00	o CONNECTOR, 4P, MALE
CN918	1-564-241-00	o CONNECTOR, 4P, MALE
CN919	1-564-241-00	o CONNECTOR, 4P, MALE
#D901	8-719-033-57	s DIODE ESAE83-006
D902	8-719-920-40	s DIODE ESAB82-004
D903	8-719-908-00	s ESAC33-02CS
D904	8-719-901-90	s DIODE ESAC33-02N
PH901	8-719-946-27	s PHOTO COUPLER PC837
PH902	8-719-946-27	s PHOTO COUPLER PC837
PH903	8-719-946-27	s PHOTO COUPLER PC837
R901	1-260-093-11	s CARBON 330 5% 1/2W
R902	1-260-099-11	s CARBON 1K 5% 1/2W
R903	1-260-101-11	s CARBON 1.5K 5% 1/2W
R904	1-260-101-11	s CARBON 1.5K 5% 1/2W
R905	1-260-093-11	s CARBON 330 5% 1/2W
R906	1-260-099-11	s CARBON 1K 5% 1/2W
R907	1-260-101-11	s CARBON 1.5K 5% 1/2W
R908	1-260-101-11	s CARBON 1.5K 5% 1/2W

SW-604 BOARD/CONSOLE

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-790-A	o MOUNTED CIRCUIT BOARD, SW-604
8pcs	4-927-278-01	s KEY TOP
CN111	1-564-002-11	s PIN, CONNECTOR 3P
	to CN118	
CN119	1-560-807-00	o HEADER 60P
S1	1-571-656-21	s SWITCH, TACTIL
	to S8	

SW-605 BOARD/CONSOLE

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-791-A	o MOUNTED CIRCUIT BOARD, SW-605
CN121	1-695-249-11	o HEADER (STRAIGHT) 50P
S1	1-572-609-11	s SWITCH, PUSH (ILLUMINATION)
	to S8	
S9	1-572-609-21	s SWITCH, PUSH (ILLUMINATION)
	to S16	

SW-606 BOARD/CONSOLE

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-793-A	o MOUNTED CIRCUIT BOARD, SW-606
1pc	1-952-717-11	o HARNESS, SUB (MONI-SW2)
SW1	1-692-817-61	s SWITCH, PUSH (ILLUMINATION)
SW2	1-692-817-51	s SWITCH, PUSH (ILLUMINATION)
SW3	1-692-817-41	s SWITCH, PUSH (ILLUMINATION)
SW4	1-692-817-31	s SWITCH, PUSH (ILLUMINATION)
SW5	1-692-817-11	s SWITCH, PUSH (ILLUMINATION)
SW6	1-692-817-21	s SWITCH, PUSH (ILLUMINATION)
SW7	1-692-817-11	s SWITCH, PUSH (ILLUMINATION)

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

VR-165 BOARD/CONSOLE

Ref. No.

or Q'ty Part No. SP Description

1pc A-8276-792-A o MOUNTED CIRCUIT BOARD, VR-165
(This assembly includes the following parts, MIC board.)

1pc 1-609-885-00 o PRINTED CIRCUIT BOARD, MIC
1pc 1-944-634-11 s HARNESS (TB MIC)
1pc 3-574-761-00 s HOLDER, MICROPHONE

CN101 1-564-002-11 s PIN, CONNECTOR 3P
CN613 1-564-013-11 o PIN, CONNECTOR 3P
CN614 1-569-050-11 o CONNECTOR, PS TYPE 34P, MALE
CN615 1-506-501-11 o HEADER 20P
CN616 1-695-251-11 o HEADER (RIGHT ANGLE TYPE) 20P

CN617 1-564-002-11 s PIN, CONNECTOR 3P
CN618 1-564-013-31 s PIN, CONNECTOR 3P
CN619 1-506-487-11 s CONNECTOR 8P, MALE

ECM1 8-814-189-31 s MICROPHONE, BUILT-IN (C-1007D)

RV1 1-223-546-11 s RES, VAR CARBON 10K/10K
RV2 1-223-546-11 s RES, VAR CARBON 10K/10K
RV3 1-223-546-11 s RES, VAR CARBON 10K/10K
RV4 1-223-545-11 s RES, VAR, CARBON 10KX4
RV5 1-223-546-11 s RES, VAR CARBON 10K/10K

DMX-B4008/B4016 METER UNIT

IF-421 BOARD/METER UNIT

Ref. No.

or Q'ty Part No. SP Description

1pc A-8275-422-A o MOUNTED CIRCUIT BOARD, IF-421

C113 1-102-963-00 s CERAMIC 33PF 5% 50V
C114 1-102-963-00 s CERAMIC 33PF 5% 50V
C115 1-163-038-00 s CERAMIC, CHIP 0.1uF 25V
C116 1-126-157-11 s ELECT 10uF 20% 16V
C117 1-163-038-00 s CERAMIC, CHIP 0.1uF 25V

C207 1-126-935-11 s ELECT 470uF 20% 16V

CN101 1-563-335-11 s CONNECTOR, DIN 48P, FEMALE
CN111 1-564-411-11 o PIN, CONNECTOR 50P
CN121 1-695-246-11 o HEADER (STRAIGHT) 16P

CNI101 1-526-659-00 o SOCKET, IC 28P

D201 8-719-911-19 s DIODE 1SS119
to D212

D502 8-719-812-43 s LED TLG124A, GRN
D503 8-719-812-43 s LED TLG124A, GRN
D504 8-719-812-43 s LED TLG124A, GRN
D505 8-719-812-43 s LED TLG124A, GRN

FB201 1-236-163-11 s ENCAPSULATED COMPONENT

IC101 8-759-275-01 o IC 27C256B-MTLNK-V1.00
IC102 8-759-144-67 s IC UPD43256AGU-12L
IC103 8-759-246-66 s IC TMP284C015BF-6
IC104 8-759-926-07 s IC SN74HC132NS
IC105 8-759-925-85 s IC SN74HC32NS

IC106 8-759-926-11 s IC SN74HC138NS
IC107 8-759-926-11 s IC SN74HC138NS
IC108 8-759-925-82 s IC SN74HC21NS
IC109 8-759-926-82 s IC SN74HC574ANS
IC110 8-759-930-42 s IC SN74LS145NS

IC111 8-759-926-82 s IC SN74HC574ANS
IC112 8-759-926-82 s IC SN74HC574ANS
IC113 8-759-989-91 s IC TL7705ACPS
IC201 8-759-923-64 s IC AM26LS32ACNS
IC202 8-759-994-41 s IC CXD8025Q

IC203 8-759-994-41 s IC CXD8025Q
IC204 8-759-926-77 s IC SN74HC541NS
IC205 8-759-926-77 s IC SN74HC541NS
IC206 1-467-544-11 s CONVERTER, DC-DC

Q101 8-729-804-87 s TRANSISTOR 2SB1142-T
to Q110

R101 1-249-425-11 s CARBON 4.7K 5% 1/4W

R124 1-249-425-11 s CARBON 4.7K 5% 1/4W
R201 1-249-406-11 s CARBON 120 5% 1/4W
to R209

RB102 1-235-195-00 s RESISTOR BLOCK 10KX8

RB103 1-235-332-11 s RESISTOR BLOCK 470X8
RB501 1-235-195-00 s RESISTOR BLOCK 10KX8

S101 1-554-937-11 s SWITCH, PUSH
S102 1-570-623-11 s SWITCH, DIP 8-CKT

X101 1-567-865-11 s CRYSTAL, 12.00MHz

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

MT-88 BOARD/METER UNIT

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-423-A	o MOUNTED CIRCUIT BOARD, MT-88
2pcs	4-927-278-01	s KEY TOP
CN301	1-506-750-11	o CONNECTOR, DIN 48P, MALE
D301 to D306	8-719-027-26	s DIODE HDSP-8825
D307 to D312	8-719-420-72	s DIODE LN0603GP3
IC301	8-759-207-31	s IC TC74HC4028F
IC302	8-759-207-31	s IC TC74HC4028F
IC303	8-759-925-85	s IC SN74HC32NS
IC304	8-759-051-53	s IC TD62381F
IC305	8-759-051-53	s IC TD62381F
IC306	8-759-051-53	s IC TD62381F
IC307	8-759-207-31	s IC TC74HC4028F
IC308	8-759-207-31	s IC TC74HC4028F
IC309	8-759-925-85	s IC SN74HC32NS
IC310	8-759-051-53	s IC TD62381F
IC311	8-759-051-53	s IC TD62381F
IC312	8-759-051-53	s IC TD62381F
IC313	8-759-207-31	s IC TC74HC4028F
IC314	8-759-207-31	s IC TC74HC4028F
IC315	8-759-925-85	s IC SN74HC32NS
IC316	8-759-051-53	s IC TD62381F
IC317	8-759-051-53	s IC TD62381F
IC318	8-759-051-53	s IC TD62381F
R367 to R378	1-249-413-11	s CARBON 470 5% 1/4W
R379	1-249-411-11	s CARBON 330 5% 1/4W
R380	1-249-411-11	s CARBON 330 5% 1/4W
S301	1-571-656-21	s SWITCH, TACTIL
S302	1-571-656-21	s SWITCH, TACTIL
S303	1-553-875-00	s SWITCH, RUBBER

DMX-B4008 PROCESSOR

CN-833 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-410-A	o MOUNTED CIRCUIT BOARD, CN-833
1pc	3-182-992-02	o PANEL, CN-833
3pcs	7-682-947-01	s SCREW +PSW 3X6
2pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
2pcs	3-172-089-01	o HANDLE
4pcs	7-621-259-35	s SCREW +P 2.6X5
C1	1-101-880-00	s CERAMIC 47PF 5% 50V
C2	1-101-880-00	s CERAMIC 47PF 5% 50V
C3	1-130-499-00	s MYLAR 0.22uF 5% 50V
C4	1-130-499-00	s MYLAR 0.22uF 5% 50V
C13	1-130-499-00	s MYLAR 0.22uF 5% 50V
C14	1-130-499-00	s MYLAR 0.22uF 5% 50V
C15	1-101-880-00	s CERAMIC 47PF 5% 50V
C16	1-101-880-00	s CERAMIC 47PF 5% 50V
C17	1-126-022-11	s ELECT 47uF 20% 25V
C18	1-126-022-11	s ELECT 47uF 20% 25V
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN3	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN6	1-580-347-11	s CONNECTOR, BNC, FEMALE
CN7	1-580-347-11	s CONNECTOR, BNC, FEMALE
CN8	1-580-347-11	s CONNECTOR, BNC, FEMALE
CN9	1-580-347-11	s CONNECTOR, BNC, FEMALE
CN12	1-580-347-11	s CONNECTOR, BNC, FEMALE
D1	8-719-911-19	s DIODE 1SS119
D2	8-719-911-19	s DIODE 1SS119
D3	8-719-911-19	s DIODE 1SS119
D4	8-719-911-19	s DIODE 1SS119
D13	8-719-911-19	s DIODE 1SS119
D14	8-719-911-19	s DIODE 1SS119
D15	8-719-911-19	s DIODE 1SS119
D16	8-719-911-19	s DIODE 1SS119
FIL1	1-236-163-11	s ENCAPSULATED COMPONENT
FIL2	1-236-163-11	s ENCAPSULATED COMPONENT
FIL3	1-236-163-11	s ENCAPSULATED COMPONENT
FIL4	1-236-163-11	s ENCAPSULATED COMPONENT
FIL101	1-236-071-11	s ENCAPSULATED COMPONENT, LC
IC1	8-759-926-31	s IC AM26LS31PC
IC2	8-759-916-20	s IC SN74HC14AN
IC3	8-759-926-32	s IC AM26LS32PC
R1	1-249-393-11	s CARBON 10 5% 1/4W
R2	1-249-393-11	s CARBON 10 5% 1/4W
R10	1-215-398-00	s METAL 110 1% 1/6W
R13	1-249-429-11	s CARBON 10K 5% 1/4W
R14	1-249-429-11	s CARBON 10K 5% 1/4W
T1	1-437-194-21	s TRANSFORMER, PULSE
T4	1-437-194-21	s TRANSFORMER, PULSE

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

CN-834 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-411-A	o MOUNTED CIRCUIT BOARD, CN-834
1pc	3-182-991-01	o PANEL, CN-834
3pcs	7-682-947-01	s SCREW +PSW 3X6
2pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
2pcs	3-172-089-01	o HANDLE
4pcs	7-682-548-04	s SCREW +B 3X8
16pcs	7-621-259-35	s SCREW +P 2.6X5
C1	1-130-499-00	s MYLAR 0.22uF 5% 50V
C2	1-130-499-00	s MYLAR 0.22uF 5% 50V
C3	1-101-880-00	s CERAMIC 47PF 5% 50V
C4	1-101-880-00	s CERAMIC 47PF 5% 50V
C5	1-130-499-00	s MYLAR 0.22uF 5% 50V
C6	1-130-499-00	s MYLAR 0.22uF 5% 50V
C7	1-101-880-00	s CERAMIC 47PF 5% 50V
C8	1-101-880-00	s CERAMIC 47PF 5% 50V
C9	1-130-499-00	s MYLAR 0.22uF 5% 50V
C10	1-130-499-00	s MYLAR 0.22uF 5% 50V
C11	1-101-880-00	s CERAMIC 47PF 5% 50V
C12	1-101-880-00	s CERAMIC 47PF 5% 50V
C13	1-130-499-00	s MYLAR 0.22uF 5% 50V
C14	1-130-499-00	s MYLAR 0.22uF 5% 50V
C15	1-101-880-00	s CERAMIC 47PF 5% 50V
C16	1-101-880-00	s CERAMIC 47PF 5% 50V
C17	1-130-499-00	s MYLAR 0.22uF 5% 50V
C18	1-130-499-00	s MYLAR 0.22uF 5% 50V
C19	1-101-880-00	s CERAMIC 47PF 5% 50V
C20	1-101-880-00	s CERAMIC 47PF 5% 50V
C21	1-130-499-00	s MYLAR 0.22uF 5% 50V
C22	1-130-499-00	s MYLAR 0.22uF 5% 50V
C23	1-101-880-00	s CERAMIC 47PF 5% 50V
C24	1-101-880-00	s CERAMIC 47PF 5% 50V
C25	1-130-499-00	s MYLAR 0.22uF 5% 50V
C26	1-130-499-00	s MYLAR 0.22uF 5% 50V
C27	1-101-880-00	s CERAMIC 47PF 5% 50V
C28	1-101-880-00	s CERAMIC 47PF 5% 50V
C29	1-130-499-00	s MYLAR 0.22uF 5% 50V
C30	1-130-499-00	s MYLAR 0.22uF 5% 50V
C31	1-101-880-00	s CERAMIC 47PF 5% 50V
C32	1-101-880-00	s CERAMIC 47PF 5% 50V
C33	1-126-022-11	s ELECT 47uF 20% 25V
C34	1-126-022-11	s ELECT 47uF 20% 25V
C41	1-102-963-00	s CERAMIC 33PF 5% 50V
C42	1-136-165-00	s FILM 0.1uF 5% 50V
C43	1-124-584-00	s ELECT 100uF 20% 10V
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
to CN9		
CN10	1-563-771-11	s CONNECTOR, D-SUB 15P, FEMALE
CN11	1-563-772-11	o CONNECTOR, D-SUB 25P, FEMALE
D1	8-719-911-19	s DIODE 1SS119
to D34		
FIL1	1-236-163-11	s ENCAPSULATED COMPONENT
to FIL32		
FIL101	1-236-071-11	s ENCAPSULATED COMPONENT, LC
FIL102	1-236-071-11	s ENCAPSULATED COMPONENT, LC

(CN-834 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
IC1	8-759-926-32	s IC AM26LS32PC
IC2	8-759-926-32	s IC AM26LS32PC
IC3	8-759-921-99	s IC SN74HCT541N
IC4	8-759-951-24	s IC SN75124N
IC5	8-759-951-23	s IC SN75123N
IC6	8-759-916-20	s IC SN74HC14AN
Q1	8-729-900-37	s TRANSISTOR DTC124EF
R1	1-215-398-00	s METAL 110 1% 1/6W
R4	1-215-398-00	s METAL 110 1% 1/6W
R7	1-215-398-00	s METAL 110 1% 1/6W
R10	1-215-398-00	s METAL 110 1% 1/6W
R13	1-215-398-00	s METAL 110 1% 1/6W
R16	1-215-398-00	s METAL 110 1% 1/6W
R19	1-215-398-00	s METAL 110 1% 1/6W
R22	1-215-398-00	s METAL 110 1% 1/6W
R25	1-249-429-11	s CARBON 10K 5% 1/4W
to R40		
R41	1-215-394-00	s METAL 75 1% 1/6W
R43	1-249-425-11	s CARBON 4.7K 5% 1/4W
R44	1-215-398-00	s METAL 110 1% 1/6W
T1	1-437-194-21	s TRANSFORMER, PULSE
to T8		

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

CN-835 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-412-A	o MOUNTED CIRCUIT BOARD, CN-835
1pc	3-182-990-01	o PANEL, CN-835
3pcs	7-682-947-01	s SCREW +PSW 3X6
2pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
2pcs	3-172-089-01	o HANDLE
16pcs	7-621-259-35	s SCREW +P 2.6X5
C1	1-130-499-00	s MYLAR 0.22uF 5% 50V
C2	1-130-499-00	s MYLAR 0.22uF 5% 50V
C3	1-101-880-00	s CERAMIC 47PF 5% 50V
C4	1-101-880-00	s CERAMIC 47PF 5% 50V
C5	1-130-499-00	s MYLAR 0.22uF 5% 50V
C6	1-130-499-00	s MYLAR 0.22uF 5% 50V
C7	1-101-880-00	s CERAMIC 47PF 5% 50V
C8	1-101-880-00	s CERAMIC 47PF 5% 50V
C9	1-130-499-00	s MYLAR 0.22uF 5% 50V
C10	1-130-499-00	s MYLAR 0.22uF 5% 50V
C11	1-101-880-00	s CERAMIC 47PF 5% 50V
C12	1-101-880-00	s CERAMIC 47PF 5% 50V
C13	1-130-499-00	s MYLAR 0.22uF 5% 50V
C14	1-130-499-00	s MYLAR 0.22uF 5% 50V
C15	1-101-880-00	s CERAMIC 47PF 5% 50V
C16	1-101-880-00	s CERAMIC 47PF 5% 50V
C17	1-130-499-00	s MYLAR 0.22uF 5% 50V
C18	1-130-499-00	s MYLAR 0.22uF 5% 50V
C19	1-101-880-00	s CERAMIC 47PF 5% 50V
C20	1-101-880-00	s CERAMIC 47PF 5% 50V
C21	1-130-499-00	s MYLAR 0.22uF 5% 50V
C22	1-130-499-00	s MYLAR 0.22uF 5% 50V
C23	1-101-880-00	s CERAMIC 47PF 5% 50V
C24	1-101-880-00	s CERAMIC 47PF 5% 50V
C25	1-130-499-00	s MYLAR 0.22uF 5% 50V
C26	1-130-499-00	s MYLAR 0.22uF 5% 50V
C27	1-101-880-00	s CERAMIC 47PF 5% 50V
C28	1-101-880-00	s CERAMIC 47PF 5% 50V
C29	1-130-499-00	s MYLAR 0.22uF 5% 50V
C30	1-130-499-00	s MYLAR 0.22uF 5% 50V
C31	1-101-880-00	s CERAMIC 47PF 5% 50V
C32	1-101-880-00	s CERAMIC 47PF 5% 50V
C33	1-126-022-11	s ELECT 47uF 20% 25V
C34	1-126-022-11	s ELECT 47uF 20% 25V
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2 to CN9	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
D1 to D32	8-719-911-19	s DIODE 1SS119
FIL1 to FL16	1-236-163-11	s ENCAPSULATED COMPONENT
FIL101	1-236-071-11	s ENCAPSULATED COMPONENT, LC
IC1	8-759-926-32	s IC AM26LS32PC
IC2	8-759-926-32	s IC AM26LS32PC
IC3	8-759-921-99	s IC SN74HCT541N
R1	1-215-398-00	s METAL 110 1% 1/6W
R4	1-215-398-00	s METAL 110 1% 1/6W
R7	1-215-398-00	s METAL 110 1% 1/6W
R10	1-215-398-00	s METAL 110 1% 1/6W
R13	1-215-398-00	s METAL 110 1% 1/6W

(CN-835 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
R16	1-215-398-00	s METAL 110 1% 1/6W
R19	1-215-398-00	s METAL 110 1% 1/6W
R22	1-215-398-00	s METAL 110 1% 1/6W
R25 to R40	1-249-429-11	s CARBON 10K 5% 1/4W
T1 to T8	1-437-194-21	s TRANSFORMER, PULSE

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

CN-836 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-413-A	o MOUNTED CIRCUIT BOARD, CN-836
1pc	3-182-990-11	o PANEL, CN-836
3pcs	7-682-947-01	s SCREW +PSW 3X6
2pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
2pcs	3-172-089-01	o HANDLE
16pcs	7-621-259-35	s SCREW +P 2.6X5
C1	1-101-880-00	s CERAMIC 47PF 5% 50V
C2	1-101-880-00	s CERAMIC 47PF 5% 50V
C3	1-130-499-00	s MYLAR 0.22uF 5% 50V
C4	1-130-499-00	s MYLAR 0.22uF 5% 50V
C5	1-101-880-00	s CERAMIC 47PF 5% 50V
C6	1-101-880-00	s CERAMIC 47PF 5% 50V
C7	1-130-499-00	s MYLAR 0.22uF 5% 50V
C8	1-130-499-00	s MYLAR 0.22uF 5% 50V
C9	1-101-880-00	s CERAMIC 47PF 5% 50V
C10	1-101-880-00	s CERAMIC 47PF 5% 50V
C11	1-130-499-00	s MYLAR 0.22uF 5% 50V
C12	1-130-499-00	s MYLAR 0.22uF 5% 50V
C13	1-101-880-00	s CERAMIC 47PF 5% 50V
C14	1-101-880-00	s CERAMIC 47PF 5% 50V
C15	1-130-499-00	s MYLAR 0.22uF 5% 50V
C16	1-130-499-00	s MYLAR 0.22uF 5% 50V
C17	1-101-880-00	s CERAMIC 47PF 5% 50V
C18	1-101-880-00	s CERAMIC 47PF 5% 50V
C19	1-130-499-00	s MYLAR 0.22uF 5% 50V
C20	1-130-499-00	s MYLAR 0.22uF 5% 50V
C21	1-101-880-00	s CERAMIC 47PF 5% 50V
C22	1-101-880-00	s CERAMIC 47PF 5% 50V
C23	1-130-499-00	s MYLAR 0.22uF 5% 50V
C24	1-130-499-00	s MYLAR 0.22uF 5% 50V
C25	1-101-880-00	s CERAMIC 47PF 5% 50V
C26	1-101-880-00	s CERAMIC 47PF 5% 50V
C27	1-130-499-00	s MYLAR 0.22uF 5% 50V
C28	1-130-499-00	s MYLAR 0.22uF 5% 50V
C29	1-101-880-00	s CERAMIC 47PF 5% 50V
C30	1-101-880-00	s CERAMIC 47PF 5% 50V
C31	1-130-499-00	s MYLAR 0.22uF 5% 50V
C32	1-130-499-00	s MYLAR 0.22uF 5% 50V
C33	1-126-022-11	s ELECT 47uF 20% 25V
C34	1-126-022-11	s ELECT 47uF 20% 25V
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2	1-568-005-11	s CONNECTOR, XLR 3P, MALE
to CN9		
CN10	1-564-948-21	o PIN, SHORTING
COP10	1-562-579-21	s PLUG, SHORTING
D1	8-719-911-19	s DIODE 1SS119
to D32		
FIL1	1-236-163-11	s ENCAPSULATED COMPONENT
to FIL16		
FIL101	1-236-071-11	s ENCAPSULATED COMPONENT, LC
IC1	8-759-926-31	s IC AM26LS31PC
IC2	8-759-926-31	s IC AM26LS31PC
IC3	8-759-916-20	s IC SN74HC14AN
R1	1-249-393-11	s CARBON 10 5% 1/4W
to R16		

(CN-836 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
T1	1-437-194-21	s TRANSFORMER, PULSE
to T8		

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

CN-837 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-419-A	o MOUNTED CIRCUIT BOARD, CN-837
1pc	3-182-989-02	o PANEL, CN-837
3pcs	7-682-947-01	s SCREW +PSW 3X6
2pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
2pcs	3-172-089-01	o HANDLE
2pcs	7-682-548-04	s SCREW +B 3X8
6pcs	7-621-259-35	s SCREW +P 2.6X5
C1	1-101-880-00	s CERAMIC 47PF 5% 50V
C2	1-101-880-00	s CERAMIC 47PF 5% 50V
C3	1-130-499-00	s MYLAR 0.22uF 5% 50V
C4	1-130-499-00	s MYLAR 0.22uF 5% 50V
C5	1-101-880-00	s CERAMIC 47PF 5% 50V
C6	1-101-880-00	s CERAMIC 47PF 5% 50V
C7	1-130-499-00	s MYLAR 0.22uF 5% 50V
C8	1-130-499-00	s MYLAR 0.22uF 5% 50V
C9	1-101-880-00	s CERAMIC 47PF 5% 50V
C10	1-101-880-00	s CERAMIC 47PF 5% 50V
C11	1-130-499-00	s MYLAR 0.22uF 5% 50V
C12	1-130-499-00	s MYLAR 0.22uF 5% 50V
C23	1-126-933-11	s ELECT 100uF 20% 16V
C25	1-124-584-00	s ELECT 100uF 20% 10V
C27	1-126-022-11	s ELECT 47uF 20% 25V
C29	1-126-022-11	s ELECT 47uF 20% 25V
C31	1-126-022-11	s ELECT 47uF 20% 25V
C32	1-126-022-11	s ELECT 47uF 20% 25V
C41	1-124-584-00	s ELECT 100uF 20% 10V
C42	1-102-973-00	s CERAMIC 100PF 5% 50V
C43	1-102-973-00	s CERAMIC 100PF 5% 50V
C44	1-126-096-11	s ELECT 10uF 20% 35V
C45	1-102-963-00	s CERAMIC 33PF 5% 50V
C46	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C47	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C48	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C49	1-126-941-11	s ELECT 470uF 20% 25V
C50	1-126-941-11	s ELECT 470uF 20% 25V
C51	1-124-584-00	s ELECT 100uF 20% 10V
C52	1-102-973-00	s CERAMIC 100PF 5% 50V
C53	1-102-973-00	s CERAMIC 100PF 5% 50V
C54	1-126-096-11	s ELECT 10uF 20% 35V
C55	1-102-963-00	s CERAMIC 33PF 5% 50V
C56	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C57	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C58	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C59	1-126-941-11	s ELECT 470uF 20% 25V
C60	1-126-941-11	s ELECT 470uF 20% 25V
C101	1-126-022-11	s ELECT 47uF 20% 25V
C102	1-126-022-11	s ELECT 47uF 20% 25V
C121	1-126-948-11	s ELECT 100uF 20% 35V
C122	1-126-948-11	s ELECT 100uF 20% 35V
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN3	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN4	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN5	1-563-773-11	s CONNECTOR, D-SUB 37P, FEMALE
D1 to D12	8-719-911-19	s DIODE 1SS119
FIL1 to FIL18	1-236-163-11	s ENCAPSULATED COMPONENT

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(CN-837 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
FIL101	1-236-071-11	s ENCAPSULATED COMPONENT, LC
FIL102	1-236-071-11	s ENCAPSULATED COMPONENT, LC
FIL103	1-236-071-11	s ENCAPSULATED COMPONENT, LC
IC1	8-759-916-20	s IC SN74HC14AN
IC2	8-759-926-31	s IC AM26LS31PC
IC3	8-759-917-05	s IC SN74HC541AN
IC4	8-759-980-05	s IC 74AC08PC
IC5	8-759-999-32	s IC SM5813APT
IC6	8-759-158-87	s IC PCM69AP
IC7	8-759-109-82	s IC UPC814C
IC8	8-759-900-72	s IC NE5532P
IC9	8-759-900-72	s IC NE5532P
IC10	8-759-900-72	s IC NE5532P
IC11	8-759-900-72	s IC NE5532P
IC12	1-808-838-11	s HIC TAA-1S
IC13	1-808-838-11	s HIC TAA-1S
IC14	8-759-708-05	s IC NJM78L05A
R1 to R6	1-249-393-11	s CARBON 10 5% 1/4W
R7	1-215-423-00	s METAL 1.2K 1% 1/6W
R8	1-215-407-00	s METAL 270 1% 1/6W
R9	1-215-423-00	s METAL 1.2K 1% 1/6W
R10	1-215-407-00	s METAL 270 1% 1/6W
R11	1-215-423-00	s METAL 1.2K 1% 1/6W
R12	1-215-415-00	s METAL 560 1% 1/6W
R13	1-215-437-00	s METAL 4.7K 1% 1/6W
R14	1-215-437-00	s METAL 4.7K 1% 1/6W
R15	1-215-423-00	s METAL 1.2K 1% 1/6W
R16	1-215-423-00	s METAL 1.2K 1% 1/6W
R17	1-215-423-00	s METAL 1.2K 1% 1/6W
R18	1-215-423-00	s METAL 1.2K 1% 1/6W
R19	1-215-437-00	s METAL 4.7K 1% 1/6W
R20	1-249-441-11	s CARBON 100K 5% 1/4W
R21	1-215-397-00	s METAL 100 1% 1/6W
R22	1-215-433-00	s METAL 3.3K 1% 1/6W
R23	1-215-445-00	s METAL 10K 1% 1/6W
R24	1-214-842-00	s METAL 120 1% 1/2W
R25	1-214-842-00	s METAL 120 1% 1/2W
R26	1-249-441-11	s CARBON 100K 5% 1/4W
R27	1-249-441-11	s CARBON 100K 5% 1/4W
R28	1-215-439-00	s METAL 5.6K 1% 1/6W
R31	1-215-423-00	s METAL 1.2K 1% 1/6W
R32	1-215-415-00	s METAL 560 1% 1/6W
R33	1-215-437-00	s METAL 4.7K 1% 1/6W
R34	1-215-437-00	s METAL 4.7K 1% 1/6W
R35	1-215-423-00	s METAL 1.2K 1% 1/6W
R36	1-215-423-00	s METAL 1.2K 1% 1/6W
R37	1-215-423-00	s METAL 1.2K 1% 1/6W
R38	1-215-423-00	s METAL 1.2K 1% 1/6W
R39	1-215-437-00	s METAL 4.7K 1% 1/6W
R40	1-249-441-11	s CARBON 100K 5% 1/4W
R41	1-215-397-00	s METAL 100 1% 1/6W
R42	1-215-433-00	s METAL 3.3K 1% 1/6W
R43	1-215-445-00	s METAL 10K 1% 1/6W
R44	1-214-842-00	s METAL 120 1% 1/2W
R45	1-214-842-00	s METAL 120 1% 1/2W
R46	1-249-441-11	s CARBON 100K 5% 1/4W

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(CN-837 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
R47	1-249-441-11 s	CARBON 100K 5% 1/4W
R48	1-215-439-00 s	METAL 5.6K 1% 1/6W
R49	1-249-411-11 s	CARBON 330 5% 1/4W
RB1	1-231-509-00 s	RESISTOR BLOCK 1Kx4
RB2	1-235-192-00 s	RESISTOR BLOCK 1Kx8
RV1	1-230-749-21 s	RES, ADJ, CERMET 5K
RV2	1-230-749-21 s	RES, ADJ, CERMET 5K
T1	1-437-194-21 s	TRANSFORMER, PULSE
T2	1-437-194-21 s	TRANSFORMER, PULSE
T3	1-437-194-21 s	TRANSFORMER, PULSE

CPU-164 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-407-A o	MOUNTED CIRCUIT BOARD, CPU-164
2pcs	2-146-577-01 o	LEVER (1), PC BOARD
2pcs	3-174-923-01 o	LEVER (2), PC BOARD
4pcs	7-626-320-11 s	PIN, SPRING 3X8
4pcs	7-685-546-14 s	SCREW +BTP 3X8 TYPE2 N-S
7pcs	7-682-903-01 s	SCREW +PWH 3X5
1pc	3-177-060-02 o	PLATE, SHIELD, PC BOARD
1pc	7-623-954-21 s	WASHER 3.0, FIBER
C1 to C8	1-102-959-00 s	CERAMIC 22PF 5% 50V
C9	1-126-163-11 s	ELECT 4.7uF 20% 50V
C10	1-126-163-11 s	ELECT 4.7uF 20% 50V
C11	1-126-163-11 s	ELECT 4.7uF 20% 50V
C12	1-126-163-11 s	ELECT 4.7uF 20% 50V
C14	1-126-157-11 s	ELECT 10uF 20% 16V
C201	1-125-447-11 s	DOUBLE LAYERS 1FARAD 5.5V
C309	1-126-163-11 s	ELECT 4.7uF 20% 50V
C310	1-126-163-11 s	ELECT 4.7uF 20% 50V
C311	1-126-163-11 s	ELECT 4.7uF 20% 50V
C312	1-126-163-11 s	ELECT 4.7uF 20% 50V
C314	1-126-157-11 s	ELECT 10uF 20% 16V
C701	1-126-157-11 s	ELECT 10uF 20% 16V
C702	1-131-368-00 s	TANTALUM 3.3uF 10% 16V
C704	1-164-085-11 s	CERAMIC 0.001uF 10% 50V
C705	1-130-495-00 s	MYLAR 0.1uF 5% 50V
C706	1-124-584-00 s	ELECT 100uF 20% 10V
C712	1-102-963-00 s	CERAMIC 33PF 5% 50V
C721	1-126-786-11 s	ELECT 47uF 20% 16V
C723	1-126-786-11 s	ELECT 47uF 20% 16V
C725	1-126-786-11 s	ELECT 47uF 20% 16V
C727	1-126-786-11 s	ELECT 47uF 20% 16V
C728	1-124-584-00 s	ELECT 100uF 20% 10V
C732	1-124-584-00 s	ELECT 100uF 20% 10V
C756	1-136-165-00 s	FILM 0.1uF 5% 50V
C757	1-136-165-00 s	FILM 0.1uF 5% 50V
C762	1-126-160-11 s	ELECT 1uF 20% 50V
C765	1-126-789-11 s	ELECT 33uF 20% 25V
C766	1-136-165-00 s	FILM 0.1uF 5% 50V
C767	1-106-343-00 s	FILM 0.001uF 5% 200V
C768	1-136-355-11 s	FILM 330PF 5% 100V
C770	1-102-963-00 s	CERAMIC 33PF 5% 50V
C771	1-102-963-00 s	CERAMIC 33PF 5% 50V
C772	1-102-963-00 s	CERAMIC 33PF 5% 50V
C773	1-162-765-11 s	CERAMIC 0.001uF 5% 50V
C774	1-162-765-11 s	CERAMIC 0.001uF 5% 50V
C775	1-162-765-11 s	CERAMIC 0.001uF 5% 50V
C786	1-130-469-00 s	FILM 680PF 5% 50V
C790	1-126-160-11 s	ELECT 1uF 20% 50V
C797	1-101-880-00 s	CERAMIC 47PF 5% 50V
CN1	1-506-748-11 s	CONNECTOR, DIN 96P, MALE
CN2	1-506-748-11 s	CONNECTOR, DIN 96P, MALE
CN3	1-563-890-21 s	CONNECTOR, D-SUB 9P, FEMALE
CN4	1-563-890-21 s	CONNECTOR, D-SUB 9P, FEMALE
CN5	1-563-890-21 s	CONNECTOR, D-SUB 9P, FEMALE
CN6	1-563-890-21 s	CONNECTOR, D-SUB 9P, FEMALE
CN7	1-564-009-11 o	PIN, CONNECTOR 10P
CNI107	1-526-816-21 s	SOCKET, IC (DP) 24P

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(CPU-164 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
CNI201	1-526-662-21	o SOCKET, IC (DP) 40P
CNI202	1-526-662-21	o SOCKET, IC (DP) 40P
CNI307	1-526-816-21	s SOCKET, IC (DP) 24P
CNI310	1-526-656-00	s SOCKET, IC (DP) 20P
CNI401	1-526-662-21	o SOCKET, IC (DP) 40P
CNI402	1-526-662-21	o SOCKET, IC (DP) 40P
CNI503	1-526-656-00	s SOCKET, IC (DP) 20P
CNI751	1-526-656-00	s SOCKET, IC (DP) 20P
D32	8-719-911-19	s DIODE 1SS119
D101	8-719-812-31	s LED TLR123, RED
D103	8-719-812-43	s LED TLG124A, GRN
to D108		
D201	8-719-987-87	s DIODE ERA85-009
D301	8-719-812-31	s LED TLR123, RED
D303	8-719-812-43	s LED TLG124A, GRN
to D308		
D501	8-719-812-43	s LED TLG124A, GRN
D502	8-719-812-43	s LED TLG124A, GRN
D503	8-719-812-43	s LED TLG124A, GRN
D505	8-719-812-43	s LED TLG124A, GRN
D705	8-719-911-19	s DIODE 1SS119
D706	8-719-911-19	s DIODE 1SS119
D719	8-719-109-85	s DIODE RD5.1ES-B2
D720	8-719-911-19	s DIODE 1SS119
D721	8-719-911-19	s DIODE 1SS119
D722	8-719-915-30	s DIODE, VARICAP FC53M
D723	8-719-915-30	s DIODE, VARICAP FC53M
D724	8-719-915-30	s DIODE, VARICAP FC53M
#D725	8-719-911-19	s DIODE 1SS119
DB1	8-759-939-39	s IC DAN801
DB2	8-759-939-38	s IC DAP801
IC101	8-759-194-86	s IC MC68302FC16C
IC102	8-759-008-57	s IC MC34051P
IC103	8-759-972-58	s IC MAX238CNG
IC104	8-759-244-11	s IC TC74AC175P
IC105	8-759-921-21	s IC SN74HC163N
IC106	8-759-921-21	s IC SN74HC163N
IC107	8-759-079-16	o IC GAL22V10-CPUDEC-V1.0
IC108	8-759-917-05	s IC SN74HC541AN
IC109	8-759-004-72	s IC MC74HC259N
IC110	8-759-904-83	s IC 74F32PC
IC111	8-759-904-80	s IC 74F04PC
IC112	8-759-239-91	s IC TC74HC07AP
IC113	8-759-916-20	s IC SN74HC14AN
IC114	8-759-939-36	s IC TL7705ACP
IC115	8-759-916-12	s IC SN74HC00N
IC201	8-759-275-03	o IC 27C210A-EODBG-V1.00
IC202	8-759-275-05	o IC 27C210A-DSPHOST-V1.00
IC203	8-752-365-27	s IC CXK581000AH-70LL-TL
IC204	8-752-365-27	s IC CXK581000AH-70LL-TL
IC205	8-752-365-27	s IC CXK581000AH-70LL-TL
IC206	8-752-365-27	s IC CXK581000AH-70LL-TL
IC207	8-759-982-65	s IC ICL7665SCPA
IC301	8-759-194-86	s IC MC68302FC16C
IC302	8-759-904-83	s IC 74F32PC
IC303	8-759-972-58	s IC MAX238CNG
IC308	8-759-917-05	s IC SN74HC541AN

(CPU-164 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
IC309	8-759-004-72	s IC MC74HC259N
IC310	8-759-079-07	s IC GAL16V8B-DSPBUS-V1.0
IC311	8-759-904-80	s IC 74F04PC
IC312	8-759-239-91	s IC TC74HC07AP
IC313	8-759-916-20	s IC SN74HC14AN
IC314	8-759-939-36	s IC TL7705ACP
IC315	8-759-916-12	s IC SN74HC00N
IC401	8-759-275-07	o IC 27C4002-DSPAPLC-V1.00
IC403	8-752-365-27	s IC CXK581000AH-70LL-TL
IC404	8-752-365-27	s IC CXK581000AH-70LL-TL
IC405	8-752-365-27	s IC CXK581000AH-70LL-TL
IC406	8-752-365-27	s IC CXK581000AH-70LL-TL
IC501	8-759-973-43	s IC MB8421-90LPFQ
IC502	8-759-973-43	s IC MB8421-90LPFQ
IC503	8-759-079-09	o IC GAL16V8B-DSP10-V1.0
IC504	8-759-917-05	s IC SN74HC541AN
IC505	8-759-917-05	s IC SN74HC541AN
IC506	8-759-917-05	s IC SN74HC541AN
IC507	8-759-917-05	s IC SN74HC541AN
IC508	8-759-917-06	s IC SN74HC574N
IC509	8-759-917-06	s IC SN74HC574N
IC510	8-759-917-05	s IC SN74HC541AN
IC511	8-759-917-05	s IC SN74HC541AN
IC512	8-759-917-05	s IC SN74HC541AN
IC513	8-759-921-34	s IC SN74HC245N
IC514	8-759-921-34	s IC SN74HC245N
IC515	8-759-917-05	s IC SN74HC541AN
IC516	8-759-917-05	s IC SN74HC541AN
IC517	8-759-917-05	s IC SN74HC541AN
IC701	8-759-916-12	s IC SN74HC00N
IC710	8-759-990-84	s IC TL084CN
IC711	8-759-503-91	s IC TL082CP
IC712	8-759-503-91	s IC TL082CP
IC722	8-759-231-58	s IC M5F7812L
IC723	8-759-701-88	s IC NJM7912FA
IC731	8-759-951-24	s IC SN75124N
IC737	8-759-916-12	s IC SN74HC00N
IC739	8-759-203-39	s IC TC74HC390P
IC740	8-759-032-81	s IC MC74HC74N
IC741	8-759-239-47	s IC TC74HC123AP
IC742	8-759-239-47	s IC TC74HC123AP
IC749	8-759-972-26	s IC LM1881N
IC751	8-759-247-73	o IC GAL16V8B-VPLLB-V1.0
IC760	8-759-916-18	s IC SN74HC10N
IC761	8-759-921-21	s IC SN74HC163N
IC762	8-759-921-21	s IC SN74HC163N
IC781	8-759-200-11	s IC TC4011UBP
IC782	8-759-200-11	s IC TC4011UBP
IC783	8-759-916-14	s IC SN74HC04N
IC785	8-759-032-81	s IC MC74HC74N
JW401	1-535-303-00	o WIRE, JUMPER
JW402	1-535-303-00	o WIRE, JUMPER
LPF1	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
LPF2	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
LPF3	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
Q11	8-729-178-55	s TRANSISTOR 2SC2785-E
Q704	8-729-201-53	s TRANSISTOR 2SA1015-GR
Q705	8-729-119-78	s TRANSISTOR 2SC2785-HFE

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(CPU-164 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
Q706	8-729-207-36	s TRANSISTOR 2SJ105-GR
Q707	8-729-207-36	s TRANSISTOR 2SJ105-GR
Q708	8-729-207-36	s TRANSISTOR 2SJ105-GR
Q709	8-729-207-36	s TRANSISTOR 2SJ105-GR
Q710	8-729-207-36	s TRANSISTOR 2SJ105-GR
R3	1-249-393-11	s CARBON 10 5% 1/4W
R4	1-249-393-11	s CARBON 10 5% 1/4W
R9	1-249-393-11	s CARBON 10 5% 1/4W
R10	1-249-393-11	s CARBON 10 5% 1/4W
R11	1-249-437-11	s CARBON 47K 5% 1/4W
R12	1-249-437-11	s CARBON 47K 5% 1/4W
R13	1-249-437-11	s CARBON 47K 5% 1/4W
R14	1-249-437-11	s CARBON 47K 5% 1/4W
R24	1-249-425-11	s CARBON 4.7K 5% 1/4W
R25	1-249-425-11	s CARBON 4.7K 5% 1/4W
R26	1-249-425-11	s CARBON 4.7K 5% 1/4W
R33	1-249-429-11	s CARBON 10K 5% 1/4W
R34	1-249-429-11	s CARBON 10K 5% 1/4W
R101	1-249-425-11	s CARBON 4.7K 5% 1/4W
R102	1-249-425-11	s CARBON 4.7K 5% 1/4W
R103	1-249-425-11	s CARBON 4.7K 5% 1/4W
R104	1-249-425-11	s CARBON 4.7K 5% 1/4W
R105	1-249-402-11	s CARBON 56 5% 1/4W
R106	1-249-402-11	s CARBON 56 5% 1/4W
R108	1-249-425-11	s CARBON 4.7K 5% 1/4W
R109	1-249-425-11	s CARBON 4.7K 5% 1/4W
R201	1-215-451-00	s METAL 18K 1% 1/6W
R202	1-247-883-00	s CARBON 150K 5% 1/4W
R203	1-249-441-11	s CARBON 100K 5% 1/4W
R204	1-249-393-11	s CARBON 10 5% 1/4W
R205	1-215-445-00	s METAL 10K 1% 1/6W
R207	1-249-429-11	s CARBON 10K 5% 1/4W
R208	1-249-429-11	s CARBON 10K 5% 1/4W
R324	1-249-425-11	s CARBON 4.7K 5% 1/4W
R325	1-249-425-11	s CARBON 4.7K 5% 1/4W
R326	1-249-425-11	s CARBON 4.7K 5% 1/4W
R333	1-249-429-11	s CARBON 10K 5% 1/4W
R334	1-249-429-11	s CARBON 10K 5% 1/4W
R350	1-249-425-11	s CARBON 4.7K 5% 1/4W
R351	1-249-425-11	s CARBON 4.7K 5% 1/4W
R352	1-249-425-11	s CARBON 4.7K 5% 1/4W
R353	1-249-425-11	s CARBON 4.7K 5% 1/4W
R402	1-249-429-11	s CARBON 10K 5% 1/4W
R501	1-249-425-11	s CARBON 4.7K 5% 1/4W
R502	1-249-425-11	s CARBON 4.7K 5% 1/4W
R504	1-249-425-11	s CARBON 4.7K 5% 1/4W
#R636	1-249-417-11	s CARBON 1.0K 5% 1/4W
R700	1-215-445-00	s METAL 10K 1% 1/6W
R701	1-215-445-00	s METAL 10K 1% 1/6W
R702	1-215-445-00	s METAL 10K 1% 1/6W
R703	1-215-477-00	s METAL 220K 1% 1/6W
R704	1-249-425-11	s CARBON 4.7K 5% 1/4W
R705	1-247-804-11	s CARBON 75 5% 1/4W
R707	1-215-461-00	s METAL 47K 1% 1/6W
R708	1-215-421-00	s METAL 1K 1% 1/6W
R710	1-215-385-00	s METAL 33 1% 1/6W
R711	1-215-489-00	s METAL 680K 1% 1/6W
R739	1-247-895-00	s CARBON 470K 5% 1/4W
R740	1-249-425-11	s CARBON 4.7K 5% 1/4W

(CPU-164 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
R741	1-249-425-11	s CARBON 4.7K 5% 1/4W
R742	1-247-887-00	s CARBON 220K 5% 1/4W
R776	1-215-445-00	s METAL 10K 1% 1/6W
R777	1-215-447-00	s METAL 12K 1% 1/6W
R778	1-215-413-00	s METAL 470 1% 1/6W
R779	1-215-447-00	s METAL 12K 1% 1/6W
R780	1-249-429-11	s CARBON 10K 5% 1/4W
R781	1-215-447-00	s METAL 12K 1% 1/6W
R782	1-249-414-11	s CARBON 560 5% 1/4W
R787	1-215-391-00	s METAL 56 1% 1/6W
R788	1-215-439-00	s METAL 5.6K 1% 1/6W
R789	1-215-439-00	s METAL 5.6K 1% 1/6W
R790	1-215-445-00	s METAL 10K 1% 1/6W
R792	1-215-463-00	s METAL 56K 1% 1/6W
R793	1-249-429-11	s CARBON 10K 5% 1/4W
R794	1-215-493-00	s METAL 1M 1% 1/6W
R795	1-215-463-00	s METAL 56K 1% 1/6W
R796	1-215-493-00	s METAL 1M 1% 1/6W
R797	1-215-463-00	s METAL 56K 1% 1/6W
R798	1-215-493-00	s METAL 1M 1% 1/6W
R799	1-215-439-00	s METAL 5.6K 1% 1/6W
RB1	1-231-401-00	s RESISTOR BLOCK 470x8
RB2	1-235-195-00	s RESISTOR BLOCK 10KX8
RB3	1-235-195-00	s RESISTOR BLOCK 10KX8
#RB4	1-235-194-00	s RESISTOR BLOCK 4.7KX8
RB301	1-235-195-00	s RESISTOR BLOCK 10KX8
RB302	1-231-401-00	s RESISTOR BLOCK 470x8
RB303	1-235-195-00	s RESISTOR BLOCK 10KX8
#RB304	1-235-194-00	s RESISTOR BLOCK 4.7KX8
RB501	1-235-195-00	s RESISTOR BLOCK 10KX8
RB502	1-235-195-00	s RESISTOR BLOCK 10KX8
RB503	1-235-195-00	s RESISTOR BLOCK 10KX8
RB504	1-235-195-00	s RESISTOR BLOCK 10KX8
RB505	1-231-525-00	s RESISTOR BLOCK 4.7Kx4
RB506	1-235-196-00	s RESISTOR BLOCK 100Kx8
RB507	1-235-196-00	s RESISTOR BLOCK 100Kx8
RB508	1-231-501-00	s RESISTOR BLOCK 470x4
RV701	1-230-753-11	s RES, ADJ, CERMET 100K
RV702	1-230-753-11	s RES, ADJ, CERMET 100K
RV703	1-230-753-11	s RES, ADJ, CERMET 100K
S101	1-554-937-11	s SWITCH, PUSH
S102	1-570-266-11	s SWITCH, PUSH (1 KEY)
S103	1-570-623-11	s SWITCH, DIP 8-CKT
S301	1-554-937-11	s SWITCH, PUSH
S302	1-570-266-11	s SWITCH, PUSH (1 KEY)
S303	1-570-623-11	s SWITCH, DIP 8-CKT
S501	1-570-623-11	s SWITCH, DIP 8-CKT
S502	1-570-623-11	s SWITCH, DIP 8-CKT
S503	1-570-623-11	s SWITCH, DIP 8-CKT
S504	1-570-623-11	s SWITCH, DIP 8-CKT
X1	1-577-258-11	s CRYSTAL, 32MHz
X708	1-567-853-11	s CRYSTAL, 4.8MHz
X709	1-567-852-11	s CRYSTAL, 4.41MHz
X710	1-567-851-11	s CRYSTAL 4.4MHz

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

DIO-26 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-408-A	o MOUNTED CIRCUIT BOARD, DIO-26
2pcs	2-146-577-01	o LEVER (1), PC BOARD
2pcs	3-174-923-01	o LEVER (2), PC BOARD
4pcs	7-626-320-11	s PIN, SPRING 3X8
4pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
7pcs	7-682-903-01	s SCREW +PWH 3X5
1pc	3-177-060-02	o PLATE, SHIELD, PC BOARD
1pc	7-623-954-21	s WASHER 3.0, FIBER
C1 to C41	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C42	1-130-495-00	s MYLAR 0.1uF 5% 50V
C43	1-130-471-00	s MYLAR 0.001uF 5% 50V
C44	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C45	1-162-670-11	s CERAMIC 18PF 5% 50V
C46	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C48	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C49	1-130-495-00	s MYLAR 0.1uF 5% 50V
C50	1-130-471-00	s MYLAR 0.001uF 5% 50V
C51 to C64	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C65	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C66 to C72	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C83	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C85	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C87 to C90	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C91	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C92	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C93	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C94	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C96 to C101	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C102	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C103	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C104	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C105	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C107 to C112	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C113	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C114	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C115	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C116	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C118 to C123	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C124	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C125	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C126	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C127	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C129	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C130	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C202 to C206	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C210	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C400	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C401	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C402	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C405	1-126-925-11	s ELECT 470uF 20% 10V

(DIO-26 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
C500 to C507	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C700	1-130-474-00	s MYLAR 0.0018uF 5% 50V
C702	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C703	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C704	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C705	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C706	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C707	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C708	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C710	1-130-474-00	s MYLAR 0.0018uF 5% 50V
C712	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C713	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C714	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C715	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C716	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C717	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C718	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C720	1-130-474-00	s MYLAR 0.0018uF 5% 50V
C722	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C723	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C724	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C725	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C726	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C727	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C728	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C730	1-130-474-00	s MYLAR 0.0018uF 5% 50V
C732	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C733	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C734	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C735	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C736	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C737	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C738	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C740	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C741	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C742	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C743	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C744	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C745	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C746	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C747	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C748	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C749	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C750	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C751	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C752	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C753	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C754	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C755	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C756 to C763	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C764	1-126-940-11	s ELECT 330uF 20% 25V
C765	1-126-940-11	s ELECT 330uF 20% 25V
C800	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C801	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C802	1-126-940-11	s ELECT 330uF 20% 25V
C803	1-126-940-11	s ELECT 330uF 20% 25V

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(DIO-26 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
C810	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C811	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C812	1-126-940-11	s ELECT 330uF 20% 25V
C813	1-126-940-11	s ELECT 330uF 20% 25V
C820	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C821	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C822	1-126-940-11	s ELECT 330uF 20% 25V
C823	1-126-940-11	s ELECT 330uF 20% 25V
C830	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C831	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C832	1-126-940-11	s ELECT 330uF 20% 25V
C833	1-126-940-11	s ELECT 330uF 20% 25V
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CNI6	1-526-816-21	s SOCKET, IC (DP) 24P
CNI7	1-526-816-21	s SOCKET, IC (DP) 24P
D1 to D9	8-719-812-42	s DIODE TLY124
D10	8-719-911-19	s DIODE 1SS119
D11	8-719-911-19	s DIODE 1SS119
D12	8-719-812-42	s DIODE TLY124
FL1	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
FL2	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
FL3	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
FL4	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
IC1	8-759-926-77	s IC SN74HC541NS
IC2	8-759-926-77	s IC SN74HC541NS
IC3	8-759-985-78	s IC 74AC541SJ
IC4	8-759-926-49	s IC SN74HC245NS
IC5	8-759-926-49	s IC SN74HC245NS
IC6	8-759-247-71	o IC GAL22V10B-IODEC-V1.0
IC7	8-759-247-72	o IC GAL22V10B-DSDEC-V1.0
IC8	8-759-926-11	s IC SN74HC138NS
IC9	8-759-926-11	s IC SN74HC138NS
IC10	8-759-926-23	s IC SN74HC163NS
IC11	8-759-926-25	s IC SN74HC165ANS
IC12	8-759-926-77	s IC SN74HC541NS
IC13	8-759-926-77	s IC SN74HC541NS
IC14	8-759-926-77	s IC SN74HC541NS
IC15	8-759-926-77	s IC SN74HC541NS
IC16	8-759-977-89	s IC CXD8014G
IC17	8-759-069-38	s IC CXD8278AQ
IC18	8-759-069-38	s IC CXD8278AQ
IC19	8-759-069-38	s IC CXD8278AQ
IC20	8-759-069-38	s IC CXD8278AQ
IC21	8-759-926-77	s IC SN74HC541NS
IC22 to IC26	8-759-069-38	s IC CXD8278AQ
IC27	8-759-926-77	s IC SN74HC541NS
IC28 to IC37	8-752-332-80	s IC CXD1160AQ
IC38	8-759-926-50	s IC SN74HC251ANS
IC39	8-759-239-55	s IC TC74HC123AF
IC41	8-752-306-51	s IC CX23065A
IC42	8-759-931-43	s IC SN74LS624NS
IC44	8-752-306-51	s IC CX23065A

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(DIO-26 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
IC45	8-759-926-82	s IC SN74HC574ANS
IC46	8-759-925-90	s IC SN74HC74NS
IC47	8-759-926-23	s IC SN74HC163NS
IC48	8-759-985-41	s IC 74AC163SJ
IC49	8-759-985-41	s IC 74AC163SJ
IC50	8-759-927-46	s IC SN74HC00NS
IC51	8-759-925-72	s IC SN74HC02NS
IC52	8-759-985-78	s IC 74AC541SJ
IC53	8-759-985-26	s IC 74AC74SJ
IC54	8-759-985-78	s IC 74AC541SJ
IC55	8-759-985-78	s IC 74AC541SJ
IC56	8-759-951-23	s IC SN75123N
IC57 to IC61	8-759-062-88	s IC CXD8277Q
IC62	8-759-926-77	s IC SN74HC541NS
IC65	8-759-156-71	s IC SM583AP1
IC66	8-759-156-71	s IC SM583AP1
IC67	8-759-510-35	s IC PCM63P-K
IC68	8-759-510-35	s IC PCM63P-K
IC69	8-759-510-35	s IC PCM63P-K
IC70	8-759-510-35	s IC PCM63P-K
IC91	8-759-069-38	s IC CXD8278AQ
IC92	8-759-925-90	s IC SN74HC74NS
IC100	8-759-985-17	s IC 74AC04SJ
IC101	8-759-925-85	s IC SN74HC32NS
IC102	8-759-926-82	s IC SN74HC574ANS
IC103	8-759-926-82	s IC SN74HC574ANS
IC104	8-759-926-82	s IC SN74HC574ANS
IC105	8-759-925-85	s IC SN74HC32NS
IC106	8-759-926-82	s IC SN74HC574ANS
IC107	8-759-926-18	s IC SN74HC157ANS
IC108	8-759-926-18	s IC SN74HC157ANS
IC109	8-759-926-18	s IC SN74HC157ANS
IC110	8-759-927-46	s IC SN74HC00NS
IC500	8-759-069-38	s IC CXD8278AQ
IC501	8-752-332-80	s IC CXD1160AQ
IC502	8-759-926-15	s IC SN74HC151NS
IC503	8-759-926-15	s IC SN74HC151NS
IC504	8-759-926-82	s IC SN74HC574ANS
IC505	8-759-926-82	s IC SN74HC574ANS
IC506	8-759-926-11	s IC SN74HC138NS
IC507	8-752-332-80	s IC CXD1160AQ
IC700	8-759-900-72	s IC NE5532P
IC701	8-759-900-72	s IC NE5532P
IC710	8-759-900-72	s IC NE5532P
IC711	8-759-900-72	s IC NE5532P
IC720	8-759-900-72	s IC NE5532P
IC721	8-759-900-72	s IC NE5532P
IC730	8-759-900-72	s IC NE5532P
IC731	8-759-900-72	s IC NE5532P
IC740	8-759-708-05	s IC NJM78L05A
IC741	8-759-708-05	s IC NJM78L05A
IC742	8-759-708-05	s IC NJM78L05A
IC743	8-759-708-05	s IC NJM78L05A
IC744	8-759-700-65	s IC NJM79L05A
IC745	8-759-700-65	s IC NJM79L05A
IC746	8-759-700-65	s IC NJM79L05A
IC747	8-759-700-65	s IC NJM79L05A
IC801	1-808-838-11	s HIC TAA-1S

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(DIO-26 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
IC802	1-808-838-11	s HIC TAA-1S
IC803	1-808-838-11	s HIC TAA-1S
IC804	1-808-838-11	s HIC TAA-1S
L3	1-410-517-11	s INDUCTOR 47uH
Q1	8-729-205-97	s TRANSISTOR 2SC3668-Y
R1 to R9	1-249-413-11	s CARBON 470 5% 1/4W
R11	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R12	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R13	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R14	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R15	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R16	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R17	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R18	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R405	1-249-397-11	s CARBON 22 5% 1/4W
R500	1-249-413-11	s CARBON 470 5% 1/4W
R700	1-215-429-00	s METAL 2.2K 1% 1/6W
R701	1-215-423-00	s METAL 1.2K 1% 1/6W
R702	1-215-423-00	s METAL 1.2K 1% 1/6W
R703	1-215-423-00	s METAL 1.2K 1% 1/6W
R704	1-215-423-00	s METAL 1.2K 1% 1/6W
R705	1-215-445-00	s METAL 10K 1% 1/6W
R710	1-215-429-00	s METAL 2.2K 1% 1/6W
R711	1-215-423-00	s METAL 1.2K 1% 1/6W
R712	1-215-423-00	s METAL 1.2K 1% 1/6W
R713	1-215-423-00	s METAL 1.2K 1% 1/6W
R714	1-215-423-00	s METAL 1.2K 1% 1/6W
R715	1-215-445-00	s METAL 10K 1% 1/6W
R720	1-215-429-00	s METAL 2.2K 1% 1/6W
R721	1-215-423-00	s METAL 1.2K 1% 1/6W
R722	1-215-423-00	s METAL 1.2K 1% 1/6W
R723	1-215-423-00	s METAL 1.2K 1% 1/6W
R724	1-215-423-00	s METAL 1.2K 1% 1/6W
R725	1-215-445-00	s METAL 10K 1% 1/6W
R730	1-215-429-00	s METAL 2.2K 1% 1/6W
R731	1-215-423-00	s METAL 1.2K 1% 1/6W
R732	1-215-423-00	s METAL 1.2K 1% 1/6W
R733	1-215-423-00	s METAL 1.2K 1% 1/6W
R734	1-215-423-00	s METAL 1.2K 1% 1/6W
R735	1-215-445-00	s METAL 10K 1% 1/6W
R740	1-249-411-11	s CARBON 330 5% 1/4W
R741	1-249-411-11	s CARBON 330 5% 1/4W
R742	1-249-411-11	s CARBON 330 5% 1/4W
R743	1-249-411-11	s CARBON 330 5% 1/4W
R744	1-249-409-11	s CARBON 220 5% 1/4W
to R751		
R800	1-215-445-00	s METAL 10K 1% 1/6W
R801	1-215-394-00	s METAL 75 1% 1/6W
R802	1-215-394-00	s METAL 75 1% 1/6W
R803	1-215-394-00	s METAL 75 1% 1/6W
R804	1-215-394-00	s METAL 75 1% 1/6W
R810	1-215-445-00	s METAL 10K 1% 1/6W
R811	1-215-394-00	s METAL 75 1% 1/6W
R812	1-215-394-00	s METAL 75 1% 1/6W
R813	1-215-394-00	s METAL 75 1% 1/6W
R814	1-215-394-00	s METAL 75 1% 1/6W

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(DIO-26 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
R820	1-215-445-00	s METAL 10K 1% 1/6W
R821	1-215-394-00	s METAL 75 1% 1/6W
R822	1-215-394-00	s METAL 75 1% 1/6W
R823	1-215-394-00	s METAL 75 1% 1/6W
R824	1-215-394-00	s METAL 75 1% 1/6W
R830	1-215-445-00	s METAL 10K 1% 1/6W
R831	1-215-394-00	s METAL 75 1% 1/6W
R832	1-215-394-00	s METAL 75 1% 1/6W
R833	1-215-394-00	s METAL 75 1% 1/6W
R834	1-215-394-00	s METAL 75 1% 1/6W
R840	1-249-418-11	s CARBON 1.2K 5% 1/4W
R900	1-215-435-00	s METAL 3.9K 1% 1/6W
to R907		
RB1 to RB5	1-235-195-00	s RESISTOR BLOCK 10KX8
RV1	1-230-749-11	s RES, ADJ, CERMET 5K
RV2	1-230-749-11	s RES, ADJ, CERMET 5K
RV3	1-230-749-11	s RES, ADJ, CERMET 5K
RV4	1-230-749-11	s RES, ADJ, CERMET 5K
RY1	1-515-716-11	s RELAY (TQ2-5V)
RY2	1-515-716-11	s RELAY (TQ2-5V)
RY3	1-515-716-11	s RELAY (TQ2-5V)
RY4	1-515-716-11	s RELAY (TQ2-5V)
S1	1-553-252-00	s SWITCH, DIGITAL
X1	8-749-923-59	s IC VCO-8003
X2	1-577-258-11	s CRYSTAL, 32MHz

DP-131 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-636-210-11	o PRINTED CIRCUIT BOARD, DP-131
1pc	1-526-652-21	o SOCKET, IC 8P
CN1	1-564-002-11	s PIN, CONNECTOR 3P
D1	8-719-921-06	s LED HLMP-2965, RED
R1	1-249-403-11	s CARBON 68 5% 1/4W
R2	1-249-403-11	s CARBON 68 5% 1/4W
R3	1-249-403-11	s CARBON 68 5% 1/4W
R4	1-249-403-11	s CARBON 68 5% 1/4W

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

MB-481 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-795-A	o MOUNTED CIRCUIT BOARD, MB-481
C1 to C5	1-102-959-00	s CERAMIC 22PF 5% 50V
CN5 to CN9	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN1A	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN1B	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN10	1-564-002-11	s PIN, CONNECTOR 3P
CN11	1-564-915-11	o CONNECTOR, VH 7P, MALE
CN12	1-506-474-11	s CONNECTOR 9P, MALE
CN3A	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN3B	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN4A	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN4B	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
#R1	1-215-860-11	s METAL 33 5% 1W
RB1	1-235-192-00	s RESISTOR BLOCK 1KX8

MIX-15 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-409-A	o MOUNTED CIRCUIT BOARD, MIX-15
2pcs	2-146-577-01	o LEVER (1), PC BOARD
2pcs	3-174-923-01	o LEVER (2), PC BOARD
2pcs	7-626-320-11	s PIN, SPRING 3X8
4pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
7pcs	7-682-903-01	s SCREW +PWH 3X5
1pc	3-177-060-02	o PLATE, SHIELD, PC BOARD
2pcs	7-626-320-11	s PIN, SPRING 3X8
C100	1-126-947-11	s ELECT 47uF 20% 35V
C101	1-126-947-11	s ELECT 47uF 20% 35V
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN15	1-526-816-21	s SOCKET, IC (DP) 24P
CN164	1-526-816-21	s SOCKET, IC (DP) 24P
D1 to D20	8-719-812-43	s LED TLG124A, GRN
D21	8-719-812-42	s DIODE TLY124
IC1	8-759-926-77	s IC SN74HC541NS
IC2	8-759-926-77	s IC SN74HC541NS
IC3	8-759-985-78	s IC 74AC541SJ
IC4	8-759-926-11	s IC SN74HC138NS
IC5	8-759-079-20	o IC GAL22V10-MIXDEC-V1.0
IC6	8-759-925-90	s IC SN74HC74NS
IC7	8-759-926-76	s IC SN74HC540NS
IC8	8-759-985-78	s IC 74AC541SJ
IC9	8-759-985-78	s IC 74AC541SJ
IC10	8-759-925-74	s IC TC74HC04NS
IC11	8-759-926-76	s IC SN74HC540NS
IC12	8-759-925-85	s IC SN74HC32NS
IC13	8-759-926-11	s IC SN74HC138NS
IC14	8-759-926-49	s IC SN74HC245NS
IC15	8-759-926-49	s IC SN74HC245NS
IC16	8-759-926-82	s IC SN74HC574ANS
IC17	8-759-926-82	s IC SN74HC574ANS
IC18	8-759-985-78	s IC 74AC541SJ
IC20	8-759-926-23	s IC SN74HC163NS
IC21	8-759-926-23	s IC SN74HC163NS
IC22	8-759-925-85	s IC SN74HC32NS
IC23	8-759-926-25	s IC SN74HC165ANS
IC24	8-759-926-25	s IC SN74HC165ANS
IC25	8-759-925-74	s IC TC74HC04NS
IC26	8-759-925-85	s IC SN74HC32NS
IC27	8-759-985-78	s IC 74AC541SJ
IC28	8-752-352-30	s IC CXD2705AQ
IC29	8-752-352-30	s IC CXD2705AQ
IC30	8-759-926-77	s IC SN74HC541NS
IC31	8-759-925-90	s IC SN74HC74NS
IC32 to IC39	8-759-070-11	s IC TC514256BZ-60
IC40	8-752-352-30	s IC CXD2705AQ
IC41	8-752-352-30	s IC CXD2705AQ
IC42	8-759-926-05	s IC SN74HC125NS
IC43	8-759-926-06	s IC SN74HC126NS
IC44	8-759-926-05	s IC SN74HC125NS
IC45	8-759-926-06	s IC SN74HC126NS

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(MIX-15 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
IC46	8-752-352-30	s IC CXD2705AQ
IC47	8-752-352-30	s IC CXD2705AQ
IC48	8-752-352-30	s IC CXD2705AQ
IC49	8-752-352-30	s IC CXD2705AQ
IC50	8-759-043-67	s IC CXD8307Q
IC51	8-759-043-67	s IC CXD8307Q
IC52 to IC59	8-752-352-30	s IC CXD2705AQ
IC60	8-759-994-41	s IC CXD8025Q
IC61	8-759-994-41	s IC CXD8025Q
IC62	8-759-926-05	s IC SN74HC125NS
IC63	8-759-926-06	s IC SN74HC126NS
IC64	8-759-196-05	o IC GAL22V10B-MIXINS-V2.0
IC65	8-759-926-82	s IC SN74HC574ANS
IC66	8-759-926-82	s IC SN74HC574ANS
IC67	8-759-926-11	s IC SN74HC138NS
IC68	8-752-352-30	s IC CXD2705AQ
IC69	8-752-352-30	s IC CXD2705AQ
IC70	8-752-352-30	s IC CXD2705AQ
IC71	8-752-352-30	s IC CXD2705AQ
IC72	8-759-926-76	s IC SN74HC540NS
IC73	8-759-925-85	s IC SN74HC32NS
IC74	8-759-926-77	s IC SN74HC541NS
IC75	8-759-926-77	s IC SN74HC541NS
IC80	8-759-926-77	s IC SN74HC541NS
IC81	8-759-926-77	s IC SN74HC541NS
IC83	8-759-926-18	s IC SN74HC157ANS
IC84	8-759-926-18	s IC SN74HC157ANS
IC100	8-759-926-12	s IC SN74HC139NS
IC101	8-759-925-90	s IC SN74HC74NS
IC102	8-759-925-90	s IC SN74HC74NS
IC103	8-759-925-90	s IC SN74HC74NS
IC104	8-759-926-82	s IC SN74HC574ANS
IC105	8-759-926-82	s IC SN74HC574ANS
IC106	8-759-926-24	s IC SN74HC164NS
IC107	8-759-926-24	s IC SN74HC164NS
IC108	8-759-925-76	s IC SN74HC08NS
IC109	8-759-925-85	s IC SN74HC32NS
JW1	1-566-388-11	s CONNECTOR 8P, MALE
R1	1-215-433-00	s METAL 3.3K 1% 1/6W
R2	1-215-433-00	s METAL 3.3K 1% 1/6W
R3	1-215-425-00	s METAL 1.5K 1% 1/6W
R4	1-215-425-00	s METAL 1.5K 1% 1/6W
R5	1-215-433-00	s METAL 3.3K 1% 1/6W
R6	1-215-433-00	s METAL 3.3K 1% 1/6W
R7	1-215-433-00	s METAL 3.3K 1% 1/6W
R8	1-215-433-00	s METAL 3.3K 1% 1/6W
R9	1-215-425-00	s METAL 1.5K 1% 1/6W
R10	1-215-425-00	s METAL 1.5K 1% 1/6W
R11	1-215-425-00	s METAL 1.5K 1% 1/6W
R12	1-215-425-00	s METAL 1.5K 1% 1/6W
R13	1-215-433-00	s METAL 3.3K 1% 1/6W
R14	1-215-433-00	s METAL 3.3K 1% 1/6W
R15	1-215-425-00	s METAL 1.5K 1% 1/6W
R16	1-215-425-00	s METAL 1.5K 1% 1/6W
R17	1-249-429-11	s CARBON 10K 5% 1/4W
RB1 to RB6	1-235-195-00	s RESISTOR BLOCK 10KX8

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(MIX-15 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
RB7	1-231-533-00	s RESISTOR BLOCK 10Kx4
RB8	1-231-533-00	s RESISTOR BLOCK 10Kx4
RB9	1-231-401-00	s RESISTOR BLOCK 470x8
RB10	1-231-401-00	s RESISTOR BLOCK 470x8
RB11	1-235-332-11	s RESISTOR BLOCK 470X8
RB12	1-235-195-00	s RESISTOR BLOCK 10KX8
RB13	1-235-195-00	s RESISTOR BLOCK 10KX8
S1	1-570-623-11	s SWITCH, DIP 8-CKT
S2	1-570-623-11	s SWITCH, DIP 8-CKT
X1	1-577-170-11	s CRYSTAL, 50MHZ

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

PS-313 BOARD/PROCESSOR

Ref. No.

or Q'ty Part No. SP Description

1pc A-8275-420-A o MOUNTED CIRCUIT BOARD, PS-313
 1pc 7-621-773-87 s SCREW +B 2.6X10
 1pc 7-622-207-05 s N 2.6, TYPE 2

 C1 1-124-584-00 s ELECT 100uF 20% 10V
 C2 1-101-004-00 s CERAMIC 0.01uF 50V
 C3 1-124-584-00 s ELECT 100uF 20% 10V
 C4 1-101-004-00 s CERAMIC 0.01uF 50V
 C5 1-124-584-00 s ELECT 100uF 20% 10V

 C6 1-101-004-00 s CERAMIC 0.01uF 50V
 C11 1-126-948-11 s ELECT 100uF 20% 35V
 C12 1-101-004-00 s CERAMIC 0.01uF 50V
 C13 1-126-948-11 s ELECT 100uF 20% 35V
 C14 1-101-004-00 s CERAMIC 0.01uF 50V

 C15 1-126-948-11 s ELECT 100uF 20% 35V
 C16 1-101-004-00 s CERAMIC 0.01uF 50V
 C21 1-126-948-11 s ELECT 100uF 20% 35V
 C22 1-101-004-00 s CERAMIC 0.01uF 50V
 C23 1-126-948-11 s ELECT 100uF 20% 35V

 C24 1-101-004-00 s CERAMIC 0.01uF 50V
 C25 1-126-948-11 s ELECT 100uF 20% 35V
 C26 1-101-004-00 s CERAMIC 0.01uF 50V

 CN1 1-564-104-00 o PIN, CONNECTOR (B3P-VH) 3P
 CN2 1-564-915-11 o CONNECTOR, VH 7P, MALE
 CN3 1-564-915-11 o CONNECTOR, VH 7P, MALE
 CN4 1-506-474-11 s CONNECTOR 9P, MALE
 CN5 1-564-002-11 s PIN, CONNECTOR 3P

 CN6 1-564-320-00 s PIN, CONNECTOR (B2P-VH) 2P

 D1 8-719-033-57 s DIODE ESAE83-006
 D2 8-719-500-30 s DIODE S10SC4M
 D3 8-719-500-31 s DIODE S10SC4MR
 D4 8-719-109-93 s DIODE RD6.2ESB2

 FIL1 1-236-071-11 s ENCAPSULATED COMPONENT, LC
 to FIL5

 IC1 8-759-917-05 s IC SN74HC541AN

 IC2 8-759-007-09 s IC MC74HC540N

 PH1 8-719-946-27 s PHOTO COUPLER PC837
 PH2 8-719-946-27 s PHOTO COUPLER PC837

 R3 1-249-413-11 s CARBON 470 5% 1/4W
 R4 1-249-413-11 s CARBON 470 5% 1/4W
 R11 1-249-423-11 s CARBON 3.3K 5% 1/4W
 R12 1-249-423-11 s CARBON 3.3K 5% 1/4W
 R13 1-249-418-11 s CARBON 1.2K 5% 1/4W

 R14 1-249-418-11 s CARBON 1.2K 5% 1/4W
 R21 1-249-423-11 s CARBON 3.3K 5% 1/4W
 R22 1-249-423-11 s CARBON 3.3K 5% 1/4W
 R23 1-249-418-11 s CARBON 1.2K 5% 1/4W
 R24 1-249-418-11 s CARBON 1.2K 5% 1/4W

 RB1 1-235-192-00 s RESISTOR BLOCK 1KX8

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

DMX-B4016 PROCESSOR

CN-827 BOARD/PROCESSOR

Ref. No.

or Q'ty Part No. SP Description

1pc A-8275-634-A o MOUNTED CIRCUIT BOARD, CN-827
 1pc 3-184-317-02 o PANEL, CN-827
 4pcs 7-682-903-01 s SCREW +PWH 3X5
 2pcs 7-685-546-14 s SCREW +BTP 3X8 TYPE2 N-S
 2pcs 3-172-089-01 o HANDLE

 4pcs 7-682-547-04 s SCREW +B 3X6
 2pcs 7-621-259-35 s SCREW +P 2.6X5
 1pc 3-184-856-01 o PLATE, SHIELD CN
 3pcs 3-184-772-01 o NUT, PLATE
 3pcs 7-627-454-18 s SCREW, PRECISION +K 2.6X4

 C3 1-130-499-00 s MYLAR 0.22uF 5% 50V
 C4 1-130-499-00 s MYLAR 0.22uF 5% 50V
 C5 1-101-880-00 s CERAMIC 47PF 5% 50V
 C6 1-101-880-00 s CERAMIC 47PF 5% 50V

 CN1 1-506-748-11 s CONNECTOR, DIN 96P, MALE
 CN2 1-563-772-11 o CONNECTOR, D-SUB 25P, FEMALE
 CN3 1-563-771-11 s CONNECTOR, D-SUB 15P, FEMALE
 CN6 1-568-006-11 s CONNECTOR, XLR 3P, FEMALE
 CN7 1-764-273-11 s CONNECTOR, COAXIAL (BNC TYPE)
 to CN11

 D1 8-719-911-19 s DIODE 1SS119

 D2 8-719-911-19 s DIODE 1SS119
 D3 8-719-911-19 s DIODE 1SS119
 D4 8-719-911-19 s DIODE 1SS119

 FL1 1-236-163-11 s ENCAPSULATED COMPONENT
 to FL16

 FL17 1-236-129-11 s ENCAPSULATED COMPONENTS, LC
 FL18 1-236-129-11 s ENCAPSULATED COMPONENTS, LC
 FL101 1-424-008-11 s FILTER, NOISE (SIGNAL LINE)

 IC1 8-759-926-32 s IC AM26LS32PC
 IC2 8-759-916-20 s IC SN74HC14AN

 R1 1-215-398-00 s METAL 110 1% 1/6W
 R4 1-249-429-11 s CARBON 10K 5% 1/4W
 R5 1-249-429-11 s CARBON 10K 5% 1/4W

 T1 1-437-194-21 s TRANSFORMER, PULSE

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

CN-828A BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-635-A	o MOUNTED CIRCUIT BOARD, CN-828A
1pc	3-184-316-02	o PANEL, CN-828A
4pcs	7-682-903-01	s SCREW +PWH 3X5
2pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
2pcs	3-172-089-01	o HANDLE
32pcs	7-621-259-35	s SCREW +P 2.6X5
1pc	3-184-856-01	o PLATE, SHIELD CN
3pcs	3-184-772-01	o NUT, PLATE
3pcs	7-627-454-18	s SCREW, PRECISION +K 2.6X4
C7	1-124-589-11	s ELECT 47uF 20% 16V
C11	1-130-499-00	s MYLAR 0.22uF 5% 50V
C12	1-130-499-00	s MYLAR 0.22uF 5% 50V
C13	1-101-880-00	s CERAMIC 47PF 5% 50V
C14	1-101-880-00	s CERAMIC 47PF 5% 50V
C21	1-130-499-00	s MYLAR 0.22uF 5% 50V
C22	1-130-499-00	s MYLAR 0.22uF 5% 50V
C23	1-101-880-00	s CERAMIC 47PF 5% 50V
C24	1-101-880-00	s CERAMIC 47PF 5% 50V
C31	1-130-499-00	s MYLAR 0.22uF 5% 50V
C32	1-130-499-00	s MYLAR 0.22uF 5% 50V
C33	1-101-880-00	s CERAMIC 47PF 5% 50V
C34	1-101-880-00	s CERAMIC 47PF 5% 50V
C41	1-130-499-00	s MYLAR 0.22uF 5% 50V
C42	1-130-499-00	s MYLAR 0.22uF 5% 50V
C43	1-101-880-00	s CERAMIC 47PF 5% 50V
C44	1-101-880-00	s CERAMIC 47PF 5% 50V
C51	1-130-499-00	s MYLAR 0.22uF 5% 50V
C52	1-130-499-00	s MYLAR 0.22uF 5% 50V
C53	1-101-880-00	s CERAMIC 47PF 5% 50V
C54	1-101-880-00	s CERAMIC 47PF 5% 50V
C61	1-130-499-00	s MYLAR 0.22uF 5% 50V
C62	1-130-499-00	s MYLAR 0.22uF 5% 50V
C63	1-101-880-00	s CERAMIC 47PF 5% 50V
C64	1-101-880-00	s CERAMIC 47PF 5% 50V
C71	1-130-499-00	s MYLAR 0.22uF 5% 50V
C72	1-130-499-00	s MYLAR 0.22uF 5% 50V
C73	1-101-880-00	s CERAMIC 47PF 5% 50V
C74	1-101-880-00	s CERAMIC 47PF 5% 50V
C81	1-130-499-00	s MYLAR 0.22uF 5% 50V
C82	1-130-499-00	s MYLAR 0.22uF 5% 50V
C83	1-101-880-00	s CERAMIC 47PF 5% 50V
C84	1-101-880-00	s CERAMIC 47PF 5% 50V
C91	1-130-499-00	s MYLAR 0.22uF 5% 50V
C92	1-130-499-00	s MYLAR 0.22uF 5% 50V
C93	1-101-880-00	s CERAMIC 47PF 5% 50V
C94	1-101-880-00	s CERAMIC 47PF 5% 50V
C101	1-130-499-00	s MYLAR 0.22uF 5% 50V
C102	1-130-499-00	s MYLAR 0.22uF 5% 50V
C103	1-101-880-00	s CERAMIC 47PF 5% 50V
C104	1-101-880-00	s CERAMIC 47PF 5% 50V
C111	1-130-499-00	s MYLAR 0.22uF 5% 50V
C112	1-130-499-00	s MYLAR 0.22uF 5% 50V
C113	1-101-880-00	s CERAMIC 47PF 5% 50V
C114	1-101-880-00	s CERAMIC 47PF 5% 50V
C121	1-130-499-00	s MYLAR 0.22uF 5% 50V
C122	1-130-499-00	s MYLAR 0.22uF 5% 50V
C123	1-101-880-00	s CERAMIC 47PF 5% 50V
C124	1-101-880-00	s CERAMIC 47PF 5% 50V
C131	1-130-499-00	s MYLAR 0.22uF 5% 50V

(CN-828A BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
C132	1-130-499-00	s MYLAR 0.22uF 5% 50V
C133	1-101-880-00	s CERAMIC 47PF 5% 50V
C134	1-101-880-00	s CERAMIC 47PF 5% 50V
C141	1-130-499-00	s MYLAR 0.22uF 5% 50V
C142	1-130-499-00	s MYLAR 0.22uF 5% 50V
C143	1-101-880-00	s CERAMIC 47PF 5% 50V
C144	1-101-880-00	s CERAMIC 47PF 5% 50V
C151	1-130-499-00	s MYLAR 0.22uF 5% 50V
C152	1-130-499-00	s MYLAR 0.22uF 5% 50V
C153	1-101-880-00	s CERAMIC 47PF 5% 50V
C154	1-101-880-00	s CERAMIC 47PF 5% 50V
C161	1-130-499-00	s MYLAR 0.22uF 5% 50V
C162	1-130-499-00	s MYLAR 0.22uF 5% 50V
C163	1-101-880-00	s CERAMIC 47PF 5% 50V
C164	1-101-880-00	s CERAMIC 47PF 5% 50V
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
to CN17		
COR1	1-564-947-21	o PIN, SHORTING, 2P
CP1	8-719-980-37	s DIODE DAN803
CP2	8-719-980-36	s DIODE DAP803
CP3	8-719-980-37	s DIODE DAN803
CP4	8-719-980-36	s DIODE DAP803
CP5	8-719-980-37	s DIODE DAN803
CP6	8-719-980-36	s DIODE DAP803
CP7	8-719-980-37	s DIODE DAN803
CP8	8-719-980-36	s DIODE DAP803
FL1	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
FL11	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL12	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL21	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL22	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL31	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL32	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL41	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL42	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL51	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL52	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL61	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL62	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL71	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL72	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL81	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL82	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL91	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL92	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL101	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL102	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL111	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL112	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL121	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL122	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL131	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL132	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL141	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL142	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL151	1-236-129-11	s ENCAPSULATED COMPONENTS, LC

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(CN-828A BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
FL152	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL161	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL162	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
IC1	8-759-926-32	s IC AM26LS32PC
IC2	8-759-926-32	s IC AM26LS32PC
IC3	8-759-926-32	s IC AM26LS32PC
IC4	8-759-926-32	s IC AM26LS32PC
IC5	8-759-917-05	s IC SN74HC541AN
IC6	8-759-917-05	s IC SN74HC541AN
R11	1-215-398-00	s METAL 110 1% 1/6W
R21	1-215-398-00	s METAL 110 1% 1/6W
R31	1-215-398-00	s METAL 110 1% 1/6W
R41	1-215-398-00	s METAL 110 1% 1/6W
R51	1-215-398-00	s METAL 110 1% 1/6W
R61	1-215-398-00	s METAL 110 1% 1/6W
R71	1-215-398-00	s METAL 110 1% 1/6W
R81	1-215-398-00	s METAL 110 1% 1/6W
R91	1-215-398-00	s METAL 110 1% 1/6W
R101	1-215-398-00	s METAL 110 1% 1/6W
R111	1-215-398-00	s METAL 110 1% 1/6W
R121	1-215-398-00	s METAL 110 1% 1/6W
R131	1-215-398-00	s METAL 110 1% 1/6W
R141	1-215-398-00	s METAL 110 1% 1/6W
R151	1-215-398-00	s METAL 110 1% 1/6W
R161	1-215-398-00	s METAL 110 1% 1/6W
RB1 to RB6	1-235-195-00	s RESISTOR BLOCK 10KX8
T1 to T16	1-437-194-21	s TRANSFORMER, PULSE

CN-828B BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-637-A	o MOUNTED CIRCUIT BOARD, CN-828B
1pc	3-184-315-02	o PANEL, CN-828B
4pcs	7-682-903-01	s SCREW +PWH 3X5
2pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
2pcs	3-172-089-01	o HANDLE
30pcs	7-621-259-35	s SCREW +P 2.6X5
1pc	3-184-856-01	o PLATE, SHIELD CN
3pcs	3-184-772-01	o NUT, PLATE
3pcs	7-627-454-18	s SCREW, PRECISION +K 2.6X4
C7	1-124-589-11	s ELECT 47uF 20% 16V
C11	1-130-499-00	s MYLAR 0.22uF 5% 50V
C12	1-130-499-00	s MYLAR 0.22uF 5% 50V
C13	1-101-880-00	s CERAMIC 47PF 5% 50V
C14	1-101-880-00	s CERAMIC 47PF 5% 50V
C21	1-130-499-00	s MYLAR 0.22uF 5% 50V
C22	1-130-499-00	s MYLAR 0.22uF 5% 50V
C23	1-101-880-00	s CERAMIC 47PF 5% 50V
C24	1-101-880-00	s CERAMIC 47PF 5% 50V
C31	1-130-499-00	s MYLAR 0.22uF 5% 50V
C32	1-130-499-00	s MYLAR 0.22uF 5% 50V
C33	1-101-880-00	s CERAMIC 47PF 5% 50V
C34	1-101-880-00	s CERAMIC 47PF 5% 50V
C41	1-130-499-00	s MYLAR 0.22uF 5% 50V
C42	1-130-499-00	s MYLAR 0.22uF 5% 50V
C43	1-101-880-00	s CERAMIC 47PF 5% 50V
C44	1-101-880-00	s CERAMIC 47PF 5% 50V
C51	1-130-499-00	s MYLAR 0.22uF 5% 50V
C52	1-130-499-00	s MYLAR 0.22uF 5% 50V
C53	1-101-880-00	s CERAMIC 47PF 5% 50V
C54	1-101-880-00	s CERAMIC 47PF 5% 50V
C61	1-130-499-00	s MYLAR 0.22uF 5% 50V
C62	1-130-499-00	s MYLAR 0.22uF 5% 50V
C63	1-101-880-00	s CERAMIC 47PF 5% 50V
C64	1-101-880-00	s CERAMIC 47PF 5% 50V
C71	1-130-499-00	s MYLAR 0.22uF 5% 50V
C72	1-130-499-00	s MYLAR 0.22uF 5% 50V
C73	1-101-880-00	s CERAMIC 47PF 5% 50V
C74	1-101-880-00	s CERAMIC 47PF 5% 50V
C81	1-130-499-00	s MYLAR 0.22uF 5% 50V
C82	1-130-499-00	s MYLAR 0.22uF 5% 50V
C83	1-101-880-00	s CERAMIC 47PF 5% 50V
C84	1-101-880-00	s CERAMIC 47PF 5% 50V
C91	1-130-499-00	s MYLAR 0.22uF 5% 50V
C92	1-130-499-00	s MYLAR 0.22uF 5% 50V
C93	1-101-880-00	s CERAMIC 47PF 5% 50V
C94	1-101-880-00	s CERAMIC 47PF 5% 50V
C101	1-130-499-00	s MYLAR 0.22uF 5% 50V
C102	1-130-499-00	s MYLAR 0.22uF 5% 50V
C103	1-101-880-00	s CERAMIC 47PF 5% 50V
C104	1-101-880-00	s CERAMIC 47PF 5% 50V
C111	1-130-499-00	s MYLAR 0.22uF 5% 50V
C112	1-130-499-00	s MYLAR 0.22uF 5% 50V
C113	1-101-880-00	s CERAMIC 47PF 5% 50V
C114	1-101-880-00	s CERAMIC 47PF 5% 50V
C121	1-130-499-00	s MYLAR 0.22uF 5% 50V
C122	1-130-499-00	s MYLAR 0.22uF 5% 50V
C123	1-101-880-00	s CERAMIC 47PF 5% 50V
C124	1-101-880-00	s CERAMIC 47PF 5% 50V
C131	1-130-499-00	s MYLAR 0.22uF 5% 50V

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(CN-828B BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
C132	1-130-499-00	s MYLAR 0.22uF 5% 50V
C133	1-101-880-00	s CERAMIC 47PF 5% 50V
C134	1-101-880-00	s CERAMIC 47PF 5% 50V
C141	1-130-499-00	s MYLAR 0.22uF 5% 50V
C142	1-130-499-00	s MYLAR 0.22uF 5% 50V
C143	1-101-880-00	s CERAMIC 47PF 5% 50V
C144	1-101-880-00	s CERAMIC 47PF 5% 50V
C161	1-130-499-00	s MYLAR 0.22uF 5% 50V
C162	1-130-499-00	s MYLAR 0.22uF 5% 50V
C163	1-101-880-00	s CERAMIC 47PF 5% 50V
C164	1-101-880-00	s CERAMIC 47PF 5% 50V
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2 to CN15	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN17	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
COR1	1-564-947-21	o PIN, SHORTING, 2P
CP1	8-719-980-37	s DIODE DAN803
CP2	8-719-980-36	s DIODE DAP803
CP3	8-719-980-37	s DIODE DAN803
CP4	8-719-980-36	s DIODE DAP803
CP5	8-719-980-37	s DIODE DAN803
CP6	8-719-980-36	s DIODE DAP803
CP7	8-719-980-37	s DIODE DAN803
CP8	8-719-980-36	s DIODE DAP803
FL1	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
FL11	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL12	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL21	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL22	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL31	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL32	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL41	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL42	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL51	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL52	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL61	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL62	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL71	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL72	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL81	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL82	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL91	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL92	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL101	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL102	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL111	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL112	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL121	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL122	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL131	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL132	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL141	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL142	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL161	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL162	1-236-129-11	s ENCAPSULATED COMPONENTS, LC

(CN-828B BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
IC1	8-759-926-32	s IC AM26LS32PC
IC2	8-759-926-32	s IC AM26LS32PC
IC3	8-759-926-32	s IC AM26LS32PC
IC4	8-759-926-32	s IC AM26LS32PC
IC5	8-759-917-05	s IC SN74HC541AN
IC6	8-759-917-05	s IC SN74HC541AN
R11	1-215-398-00	s METAL 110 1% 1/6W
R21	1-215-398-00	s METAL 110 1% 1/6W
R31	1-215-398-00	s METAL 110 1% 1/6W
R41	1-215-398-00	s METAL 110 1% 1/6W
R51	1-215-398-00	s METAL 110 1% 1/6W
R61	1-215-398-00	s METAL 110 1% 1/6W
R71	1-215-398-00	s METAL 110 1% 1/6W
R81	1-215-398-00	s METAL 110 1% 1/6W
R91	1-215-398-00	s METAL 110 1% 1/6W
R101	1-215-398-00	s METAL 110 1% 1/6W
R111	1-215-398-00	s METAL 110 1% 1/6W
R121	1-215-398-00	s METAL 110 1% 1/6W
R131	1-215-398-00	s METAL 110 1% 1/6W
R141	1-215-398-00	s METAL 110 1% 1/6W
R161	1-215-398-00	s METAL 110 1% 1/6W
RB1 to RB6	1-235-195-00	s RESISTOR BLOCK 10KX8
T1 to T14	1-437-194-21	s TRANSFORMER, PULSE
T16	1-437-194-21	s TRANSFORMER, PULSE

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

CN-830 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-638-A	o MOUNTED CIRCUIT BOARD, CN-830
1pc	3-184-314-02	o PANEL, CN-830
4pcs	7-682-903-01	s SCREW +PWH 3X5
2pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
2pcs	3-172-089-01	o HANDLE
28pcs	7-621-259-35	s SCREW +P 2.6X5
1pc	3-184-856-01	o PLATE, SHIELD CN
3pcs	3-184-772-01	o NUT, PLATE
3pcs	7-627-454-18	s SCREW, PRECISION +K 2.6X4
C9	1-124-589-11	s ELECT 47uF 20% 16V
C11	1-130-499-00	s MYLAR 0.22uF 5% 50V
C12	1-130-499-00	s MYLAR 0.22uF 5% 50V
C13	1-101-880-00	s CERAMIC 47PF 5% 50V
C14	1-101-880-00	s CERAMIC 47PF 5% 50V
C21	1-130-499-00	s MYLAR 0.22uF 5% 50V
C22	1-130-499-00	s MYLAR 0.22uF 5% 50V
C23	1-101-880-00	s CERAMIC 47PF 5% 50V
C24	1-101-880-00	s CERAMIC 47PF 5% 50V
C31	1-130-499-00	s MYLAR 0.22uF 5% 50V
C32	1-130-499-00	s MYLAR 0.22uF 5% 50V
C33	1-101-880-00	s CERAMIC 47PF 5% 50V
C34	1-101-880-00	s CERAMIC 47PF 5% 50V
C41	1-130-499-00	s MYLAR 0.22uF 5% 50V
C42	1-130-499-00	s MYLAR 0.22uF 5% 50V
C43	1-101-880-00	s CERAMIC 47PF 5% 50V
C44	1-101-880-00	s CERAMIC 47PF 5% 50V
C51	1-130-499-00	s MYLAR 0.22uF 5% 50V
C52	1-130-499-00	s MYLAR 0.22uF 5% 50V
C53	1-101-880-00	s CERAMIC 47PF 5% 50V
C54	1-101-880-00	s CERAMIC 47PF 5% 50V
C81	1-130-499-00	s MYLAR 0.22uF 5% 50V
C82	1-130-499-00	s MYLAR 0.22uF 5% 50V
C83	1-101-880-00	s CERAMIC 47PF 5% 50V
C84	1-101-880-00	s CERAMIC 47PF 5% 50V
C91	1-130-499-00	s MYLAR 0.22uF 5% 50V
C92	1-130-499-00	s MYLAR 0.22uF 5% 50V
C93	1-101-880-00	s CERAMIC 47PF 5% 50V
C94	1-101-880-00	s CERAMIC 47PF 5% 50V
C101	1-101-880-00	s CERAMIC 47PF 5% 50V
C102	1-101-880-00	s CERAMIC 47PF 5% 50V
C103	1-130-499-00	s MYLAR 0.22uF 5% 50V
C104	1-130-499-00	s MYLAR 0.22uF 5% 50V
C111	1-101-880-00	s CERAMIC 47PF 5% 50V
C112	1-101-880-00	s CERAMIC 47PF 5% 50V
C113	1-130-499-00	s MYLAR 0.22uF 5% 50V
C114	1-130-499-00	s MYLAR 0.22uF 5% 50V
C121	1-101-880-00	s CERAMIC 47PF 5% 50V
C122	1-101-880-00	s CERAMIC 47PF 5% 50V
C123	1-130-499-00	s MYLAR 0.22uF 5% 50V
C124	1-130-499-00	s MYLAR 0.22uF 5% 50V
C131	1-101-880-00	s CERAMIC 47PF 5% 50V
C132	1-101-880-00	s CERAMIC 47PF 5% 50V
C133	1-130-499-00	s MYLAR 0.22uF 5% 50V
C134	1-130-499-00	s MYLAR 0.22uF 5% 50V
C141	1-101-880-00	s CERAMIC 47PF 5% 50V
C142	1-101-880-00	s CERAMIC 47PF 5% 50V
C143	1-130-499-00	s MYLAR 0.22uF 5% 50V
C144	1-130-499-00	s MYLAR 0.22uF 5% 50V
C151	1-101-880-00	s CERAMIC 47PF 5% 50V

(CN-830 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
C152	1-101-880-00	s CERAMIC 47PF 5% 50V
C153	1-130-499-00	s MYLAR 0.22uF 5% 50V
C154	1-130-499-00	s MYLAR 0.22uF 5% 50V
C161	1-101-880-00	s CERAMIC 47PF 5% 50V
C162	1-101-880-00	s CERAMIC 47PF 5% 50V
C163	1-130-499-00	s MYLAR 0.22uF 5% 50V
C164	1-130-499-00	s MYLAR 0.22uF 5% 50V
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
to CN6		
CN9	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN10	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN11	1-568-005-11	s CONNECTOR, XLR 3P, MALE
to CN17		
COR1	1-564-947-21	o PIN, SHORTING, 2P
CP1	8-719-980-37	s DIODE DAN803
CP2	8-719-980-36	s DIODE DAP803
CP3	8-719-980-37	s DIODE DAN803
CP4	8-719-980-36	s DIODE DAP803
CP5	8-719-980-37	s DIODE DAN803
CP6	8-719-980-36	s DIODE DAP803
CP7	8-719-980-37	s DIODE DAN803
CP8	8-719-980-36	s DIODE DAP803
D91	8-719-911-19	s DIODE 1SS119
D92	8-719-911-19	s DIODE 1SS119
D93	8-719-911-19	s DIODE 1SS119
D94	8-719-911-19	s DIODE 1SS119
FL1	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
FL11	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL12	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL21	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL22	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL31	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL32	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL41	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL42	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL51	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL52	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL81	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL82	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL91	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL92	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL101	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL102	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL111	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL112	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL121	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL122	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL131	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL132	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL141	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL142	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL151	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL152	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL161	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL162	1-236-129-11	s ENCAPSULATED COMPONENTS, LC

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(CN-830 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
IC1	8-759-926-32	s IC AM26LS32PC
IC2	8-759-926-32	s IC AM26LS32PC
IC3	8-759-926-32	s IC AM26LS32PC
IC4	8-759-926-31	s IC AM26LS31PC
IC5	8-759-926-31	s IC AM26LS31PC
IC6	8-759-917-05	s IC SN74HC541AN
IC7	8-759-917-05	s IC SN74HC541AN
IC8	8-759-916-20	s IC SN74HC14AN
R1	1-249-429-11	s CARBON 10K 5% 1/4W
R2	1-249-429-11	s CARBON 10K 5% 1/4W
R11	1-215-398-00	s METAL 110 1% 1/6W
R21	1-215-398-00	s METAL 110 1% 1/6W
R31	1-215-398-00	s METAL 110 1% 1/6W
R41	1-215-398-00	s METAL 110 1% 1/6W
R51	1-215-398-00	s METAL 110 1% 1/6W
R81	1-215-398-00	s METAL 110 1% 1/6W
R91	1-215-398-00	s METAL 110 1% 1/6W
R94	1-249-429-11	s CARBON 10K 5% 1/4W
R95	1-249-429-11	s CARBON 10K 5% 1/4W
R101	1-249-393-11	s CARBON 10 5% 1/4W
R102	1-249-393-11	s CARBON 10 5% 1/4W
R111	1-249-393-11	s CARBON 10 5% 1/4W
R112	1-249-393-11	s CARBON 10 5% 1/4W
R121	1-249-393-11	s CARBON 10 5% 1/4W
R122	1-249-393-11	s CARBON 10 5% 1/4W
R131	1-249-393-11	s CARBON 10 5% 1/4W
R132	1-249-393-11	s CARBON 10 5% 1/4W
R141	1-249-393-11	s CARBON 10 5% 1/4W
R142	1-249-393-11	s CARBON 10 5% 1/4W
R151	1-249-393-11	s CARBON 10 5% 1/4W
R152	1-249-393-11	s CARBON 10 5% 1/4W
R161	1-249-393-11	s CARBON 10 5% 1/4W
R162	1-249-393-11	s CARBON 10 5% 1/4W
RB1	1-235-195-00	s RESISTOR BLOCK 10KX8
RB2	1-235-195-00	s RESISTOR BLOCK 10KX8
RB3	1-235-195-00	s RESISTOR BLOCK 10KX8
RB4	1-235-195-00	s RESISTOR BLOCK 10KX8
T1 to T5	1-437-194-21	s TRANSFORMER, PULSE
T8 to T16	1-437-194-21	s TRANSFORMER, PULSE

CN-831 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-639-A	o MOUNTED CIRCUIT BOARD, CN-831
1pc	3-184-316-12	o PANEL, CN-831
4pcs	7-682-903-01	s SCREW +PWH 3X5
2pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
2pcs	3-172-089-01	o HANDLE
32pcs	7-621-259-35	s SCREW +P 2.6X5
1pc	3-184-856-01	o PLATE, SHIELD CN
3pcs	3-184-772-01	o NUT, PLATE
3pcs	7-627-454-18	s SCREW, PRECISION +K 2.6X4
C11	1-101-880-00	s CERAMIC 47PF 5% 50V
C12	1-101-880-00	s CERAMIC 47PF 5% 50V
C13	1-130-499-00	s MYLAR 0.22uF 5% 50V
C14	1-130-499-00	s MYLAR 0.22uF 5% 50V
C21	1-101-880-00	s CERAMIC 47PF 5% 50V
C22	1-101-880-00	s CERAMIC 47PF 5% 50V
C23	1-130-499-00	s MYLAR 0.22uF 5% 50V
C24	1-130-499-00	s MYLAR 0.22uF 5% 50V
C31	1-101-880-00	s CERAMIC 47PF 5% 50V
C32	1-101-880-00	s CERAMIC 47PF 5% 50V
C33	1-130-499-00	s MYLAR 0.22uF 5% 50V
C34	1-130-499-00	s MYLAR 0.22uF 5% 50V
C41	1-101-880-00	s CERAMIC 47PF 5% 50V
C42	1-101-880-00	s CERAMIC 47PF 5% 50V
C43	1-130-499-00	s MYLAR 0.22uF 5% 50V
C44	1-130-499-00	s MYLAR 0.22uF 5% 50V
C51	1-101-880-00	s CERAMIC 47PF 5% 50V
C52	1-101-880-00	s CERAMIC 47PF 5% 50V
C53	1-130-499-00	s MYLAR 0.22uF 5% 50V
C54	1-130-499-00	s MYLAR 0.22uF 5% 50V
C55	1-130-495-00	s FILM 0.1uF 5% 50V
C61	1-101-880-00	s CERAMIC 47PF 5% 50V
C62	1-101-880-00	s CERAMIC 47PF 5% 50V
C63	1-130-499-00	s MYLAR 0.22uF 5% 50V
C64	1-130-499-00	s MYLAR 0.22uF 5% 50V
C65	1-130-495-00	s FILM 0.1uF 5% 50V
C71	1-101-880-00	s CERAMIC 47PF 5% 50V
C72	1-101-880-00	s CERAMIC 47PF 5% 50V
C73	1-130-499-00	s MYLAR 0.22uF 5% 50V
C74	1-130-499-00	s MYLAR 0.22uF 5% 50V
C75	1-130-495-00	s FILM 0.1uF 5% 50V
C81	1-101-880-00	s CERAMIC 47PF 5% 50V
C82	1-101-880-00	s CERAMIC 47PF 5% 50V
C83	1-130-499-00	s MYLAR 0.22uF 5% 50V
C84	1-130-499-00	s MYLAR 0.22uF 5% 50V
C85	1-130-495-00	s FILM 0.1uF 5% 50V
C91	1-101-880-00	s CERAMIC 47PF 5% 50V
C92	1-101-880-00	s CERAMIC 47PF 5% 50V
C93	1-130-499-00	s MYLAR 0.22uF 5% 50V
C94	1-130-499-00	s MYLAR 0.22uF 5% 50V
C95	1-130-495-00	s FILM 0.1uF 5% 50V
C100	1-124-589-11	s ELECT 47uF 20% 16V
C101	1-101-880-00	s CERAMIC 47PF 5% 50V
C102	1-101-880-00	s CERAMIC 47PF 5% 50V
C103	1-130-499-00	s MYLAR 0.22uF 5% 50V
C104	1-130-499-00	s MYLAR 0.22uF 5% 50V
C105	1-130-495-00	s FILM 0.1uF 5% 50V
C111	1-101-880-00	s CERAMIC 47PF 5% 50V
C112	1-101-880-00	s CERAMIC 47PF 5% 50V
C113	1-130-499-00	s MYLAR 0.22uF 5% 50V

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(CN-831 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
C114	1-130-499-00	s MYLAR 0.22uF 5% 50V
C115	1-130-495-00	s FILM 0.1uF 5% 50V
C121	1-101-880-00	s CERAMIC 47PF 5% 50V
C122	1-101-880-00	s CERAMIC 47PF 5% 50V
C123	1-130-499-00	s MYLAR 0.22uF 5% 50V
C124	1-130-499-00	s MYLAR 0.22uF 5% 50V
C125	1-130-495-00	s FILM 0.1uF 5% 50V
C131	1-101-880-00	s CERAMIC 47PF 5% 50V
C132	1-101-880-00	s CERAMIC 47PF 5% 50V
C133	1-130-499-00	s MYLAR 0.22uF 5% 50V
C134	1-130-499-00	s MYLAR 0.22uF 5% 50V
C135	1-130-495-00	s FILM 0.1uF 5% 50V
C141	1-101-880-00	s CERAMIC 47PF 5% 50V
C142	1-101-880-00	s CERAMIC 47PF 5% 50V
C143	1-130-499-00	s MYLAR 0.22uF 5% 50V
C144	1-130-499-00	s MYLAR 0.22uF 5% 50V
C145	1-130-495-00	s FILM 0.1uF 5% 50V
C151	1-101-880-00	s CERAMIC 47PF 5% 50V
C152	1-101-880-00	s CERAMIC 47PF 5% 50V
C153	1-130-499-00	s MYLAR 0.22uF 5% 50V
C154	1-130-499-00	s MYLAR 0.22uF 5% 50V
C155	1-130-495-00	s FILM 0.1uF 5% 50V
C161	1-101-880-00	s CERAMIC 47PF 5% 50V
C162	1-101-880-00	s CERAMIC 47PF 5% 50V
C163	1-130-499-00	s MYLAR 0.22uF 5% 50V
C164	1-130-499-00	s MYLAR 0.22uF 5% 50V
C165	1-130-495-00	s FILM 0.1uF 5% 50V
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2	1-568-005-11	s CONNECTOR, XLR 3P, MALE
to CN17		
COR1	1-564-947-21	o PIN, SHORTING, 2P
CP1	8-719-980-37	s DIODE DAN803
CP2	8-719-980-36	s DIODE DAP803
CP3	8-719-980-37	s DIODE DAN803
CP4	8-719-980-36	s DIODE DAP803
CP5	8-719-980-37	s DIODE DAN803
CP6	8-719-980-36	s DIODE DAP803
CP7	8-719-980-37	s DIODE DAN803
CP8	8-719-980-36	s DIODE DAP803
FL1	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
FL11	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL12	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL21	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL22	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL31	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL32	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL41	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL42	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL51	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL52	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL61	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL62	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL71	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL72	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL81	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL82	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL91	1-236-129-11	s ENCAPSULATED COMPONENTS, LC

(CN-831 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
FL92	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL101	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL102	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL111	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL112	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL121	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL122	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL131	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL132	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL141	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL142	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL151	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL152	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL161	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
FL162	1-236-129-11	s ENCAPSULATED COMPONENTS, LC
IC1	8-759-916-20	s IC SN74HC14AN
IC2	8-759-916-20	s IC SN74HC14AN
IC3	8-759-916-20	s IC SN74HC14AN
IC4	8-759-916-20	s IC SN74HC14AN
IC5	8-759-916-50	s IC SN74HC157N
IC6	8-759-916-50	s IC SN74HC157N
IC7	8-759-926-31	s IC AM26LS31PC
IC8	8-759-926-31	s IC AM26LS31PC
IC9	8-759-926-31	s IC AM26LS31PC
IC10	8-759-926-31	s IC AM26LS31PC
R11	1-249-393-11	s CARBON 10 5% 1/4W
R12	1-249-393-11	s CARBON 10 5% 1/4W
R21	1-249-393-11	s CARBON 10 5% 1/4W
R22	1-249-393-11	s CARBON 10 5% 1/4W
R31	1-249-393-11	s CARBON 10 5% 1/4W
R32	1-249-393-11	s CARBON 10 5% 1/4W
R41	1-249-393-11	s CARBON 10 5% 1/4W
R42	1-249-393-11	s CARBON 10 5% 1/4W
R52	1-249-393-11	s CARBON 10 5% 1/4W
R62	1-249-393-11	s CARBON 10 5% 1/4W
R72	1-249-393-11	s CARBON 10 5% 1/4W
R82	1-249-393-11	s CARBON 10 5% 1/4W
R92	1-249-393-11	s CARBON 10 5% 1/4W
R102	1-249-393-11	s CARBON 10 5% 1/4W
R112	1-249-393-11	s CARBON 10 5% 1/4W
R122	1-249-393-11	s CARBON 10 5% 1/4W
R132	1-249-393-11	s CARBON 10 5% 1/4W
R142	1-249-393-11	s CARBON 10 5% 1/4W
R152	1-249-393-11	s CARBON 10 5% 1/4W
R162	1-249-393-11	s CARBON 10 5% 1/4W
RB1	1-235-195-00	s RESISTOR BLOCK 10KX8
RB2	1-235-195-00	s RESISTOR BLOCK 10KX8
RB3	1-235-195-00	s RESISTOR BLOCK 10KX8
T1	1-437-194-21	s TRANSFORMER, PULSE
to T16		

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

CN-832 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-640-A	o MOUNTED CIRCUIT BOARD, CN-832A (FOR UC/EK)
	A-8375-642-A	o MOUNTED CIRCUIT BOARD, CN-832B (FOR J)
1pc	3-184-313-01	o PANEL, CN-832
2pcs	3-172-089-01	o HANDLE
4pcs	7-682-903-01	s SCREW +PWH 3X5
2pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
2pcs	7-682-547-04	s SCREW +B 3X6
4pcs	7-621-259-35	s SCREW +P 2.6X5
1pc	3-184-856-01	o PLATE, SHIELD CN
3pcs	3-184-772-01	o NUT, PLATE
3pcs	7-627-454-18	s SCREW, PRECISION +K 2.6X4
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2	1-563-773-11	s CONNECTOR, D-SUB 37P, FEMALE
CN3	1-568-005-11	s CONNECTOR, XLR 3P, MALE(FOR UC/EK)
	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE (FOR J)
CN4	1-568-005-11	s CONNECTOR, XLR 3P, MALE(FOR UC/EK)
	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE (FOR J)
COP5	1-562-579-21	s PLUG, SHORTING
COP6	1-562-579-21	s PLUG, SHORTING
COP7	1-562-579-21	s PLUG, SHORTING
COP8	1-562-579-21	s PLUG, SHORTING
COR5	1-564-948-21	o PIN, SHORTING
COR6	1-564-948-21	o PIN, SHORTING
COR7	1-564-948-21	o PIN, SHORTING
COR8	1-564-948-21	o PIN, SHORTING
FL1 to FL20	1-236-163-11	s ENCAPSULATED COMPONENT

CPU-144 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-631-A	o MOUNTED CIRCUIT BOARD, CPU-144
2pcs	2-146-577-01	o LEVER (1), PC BOARD
2pcs	3-174-923-01	o LEVER (2), PC BOARD
4pcs	7-626-320-11	s PIN, SPRING 3X8
4pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
7pcs	7-682-903-01	s SCREW +PWH 3X5
4pcs	7-682-547-04	s SCREW +B 3X6
C3	1-124-910-11	s ELECT 47uF 20% 50V
C4	1-124-910-11	s ELECT 47uF 20% 50V
C5	1-136-165-00	s FILM 0.1uF 5% 50V
C6	1-136-165-00	s FILM 0.1uF 5% 50V
C7	1-126-101-11	s ELECT 100uF 20% 16V
C8	1-126-101-11	s ELECT 100uF 20% 16V
C9	1-124-910-11	s ELECT 47uF 20% 50V
C10	1-124-910-11	s ELECT 47uF 20% 50V
C11	1-136-165-00	s FILM 0.1uF 5% 50V
C12	1-136-165-00	s FILM 0.1uF 5% 50V
C13	1-126-101-11	s ELECT 100uF 20% 16V
C14	1-126-101-11	s ELECT 100uF 20% 16V
C15	1-124-910-11	s ELECT 47uF 20% 50V
C16	1-124-910-11	s ELECT 47uF 20% 50V
C17	1-136-165-00	s FILM 0.1uF 5% 50V
C18	1-136-165-00	s FILM 0.1uF 5% 50V
C19	1-126-101-11	s ELECT 100uF 20% 16V
C20	1-126-101-11	s ELECT 100uF 20% 16V
C21	1-124-910-11	s ELECT 47uF 20% 50V
C22	1-124-910-11	s ELECT 47uF 20% 50V
C23	1-136-165-00	s FILM 0.1uF 5% 50V
C24	1-136-165-00	s FILM 0.1uF 5% 50V
C25	1-126-101-11	s ELECT 100uF 20% 16V
C26	1-126-101-11	s ELECT 100uF 20% 16V
C27	1-124-918-11	s ELECT 47uF 20% 63V
C28	1-124-918-11	s ELECT 47uF 20% 63V
C29	1-136-165-00	s FILM 0.1uF 5% 50V
C30	1-136-165-00	s FILM 0.1uF 5% 50V
C31	1-124-918-11	s ELECT 47uF 20% 63V
C32	1-124-918-11	s ELECT 47uF 20% 63V
C51	1-124-910-11	s ELECT 47uF 20% 50V
C52	1-124-910-11	s ELECT 47uF 20% 50V
C53	1-136-165-00	s FILM 0.1uF 5% 50V
C54	1-136-165-00	s FILM 0.1uF 5% 50V
C55	1-126-101-11	s ELECT 100uF 20% 16V
C56	1-126-101-11	s ELECT 100uF 20% 16V
C57	1-124-910-11	s ELECT 47uF 20% 50V
C58	1-124-910-11	s ELECT 47uF 20% 50V
C59	1-136-165-00	s FILM 0.1uF 5% 50V
C60	1-136-165-00	s FILM 0.1uF 5% 50V
C61	1-126-101-11	s ELECT 100uF 20% 16V
C62	1-126-101-11	s ELECT 100uF 20% 16V
C63	1-124-910-11	s ELECT 47uF 20% 50V
C64	1-124-910-11	s ELECT 47uF 20% 50V
C65	1-136-165-00	s FILM 0.1uF 5% 50V
C66	1-136-165-00	s FILM 0.1uF 5% 50V
C67	1-126-101-11	s ELECT 100uF 20% 16V
C68	1-126-101-11	s ELECT 100uF 20% 16V
C69	1-124-910-11	s ELECT 47uF 20% 50V
C70	1-124-910-11	s ELECT 47uF 20% 50V
C71	1-136-165-00	s FILM 0.1uF 5% 50V

NOTE 1:Please see page 6-25 for the parts that are not listed in the parts list.

(CPU-144 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
C72	1-136-165-00	s FILM 0.1uF 5% 50V
C73	1-126-101-11	s ELECT 100uF 20% 16V
C74	1-126-101-11	s ELECT 100uF 20% 16V
C100 to C112	1-163-038-00	s CAP, CHIP 0.1uF 25V
C114 to C120	1-163-038-00	s CAP, CHIP 0.1uF 25V
C121 to C128	1-102-959-00	s CERAMIC 22PF 5% 50V
C129	1-126-163-11	s ELECT 4.7uF 20% 50V
C130	1-126-163-11	s ELECT 4.7uF 20% 50V
C131	1-126-163-11	s ELECT 4.7uF 20% 50V
C132	1-126-163-11	s ELECT 4.7uF 20% 50V
C133	1-163-038-00	s CAP, CHIP 0.1uF 25V
C134	1-126-157-11	s ELECT 10uF 20% 16V
C136	1-102-963-00	s CERAMIC 33PF 5% 50V
C137	1-130-495-00	s MYLAR 0.1uF 5% 50V
C140	1-163-038-00	s CAP, CHIP 0.1uF 25V
C141	1-126-925-11	s ELECT 470uF 20% 10V
C142	1-126-925-11	s ELECT 470uF 20% 10V
C143	1-163-038-00	s CAP, CHIP 0.1uF 25V
C151	1-163-038-00	s CAP, CHIP 0.1uF 25V
C152	1-163-038-00	s CAP, CHIP 0.1uF 25V
C155 to C163	1-163-038-00	s CAP, CHIP 0.1uF 25V
C164	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
C165	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
C201 to C207	1-163-038-00	s CAP, CHIP 0.1uF 25V
C209 to C227	1-163-038-00	s CAP, CHIP 0.1uF 25V
C270	1-163-038-00	s CAP, CHIP 0.1uF 25V
C301	1-126-157-11	s ELECT 10uF 20% 16V
C303 to C320	1-163-038-00	s CAP, CHIP 0.1uF 25V
C331	1-131-368-00	s TANTALUM 3.3uF 10% 16V
C332	1-163-038-00	s CAP, CHIP 0.1uF 25V
C333	1-164-085-11	s CERAMIC 0.001uF 10% 50V
C334	1-130-495-00	s MYLAR 0.1uF 5% 50V
C335	1-124-584-00	s ELECT 100uF 20% 10V
C336	1-163-038-00	s CAP, CHIP 0.1uF 25V
C337	1-163-038-00	s CAP, CHIP 0.1uF 25V
C338	1-102-963-00	s CERAMIC 33PF 5% 50V
C339	1-163-038-00	s CAP, CHIP 0.1uF 25V
C340	1-163-038-00	s CAP, CHIP 0.1uF 25V
C341	1-126-789-11	s ELECT 33uF 20% 25V
C342	1-136-165-00	s FILM 0.1uF 5% 50V
C343	1-136-165-00	s FILM 0.1uF 5% 50V
C344	1-136-355-11	s FILM 330PF 5% 100V
C345	1-106-343-00	s FILM 0.001uF 5% 200V
C346	1-163-038-00	s CAP, CHIP 0.1uF 25V
C347	1-126-789-11	s ELECT 33uF 20% 25V
C348	1-136-165-00	s FILM 0.1uF 5% 50V
C349	1-162-765-11	s CERAMIC 0.001uF 5% 50V
C350	1-102-951-00	s CERAMIC 15PF 5% 50V
C351	1-162-765-11	s CERAMIC 0.001uF 5% 50V
C352	1-102-951-00	s CERAMIC 15PF 5% 50V

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Ref. No. or Q'ty	Part No.	SP Description
C353	1-162-765-11	s CERAMIC 0.001uF 5% 50V
C354	1-102-951-00	s CERAMIC 15PF 5% 50V
C355	1-130-469-00	s FILM 680PF 5% 50V
C356	1-126-160-11	s ELECT 1uF 20% 50V
C357	1-124-584-00	s ELECT 100uF 20% 10V
C358	1-101-880-00	s CERAMIC 47PF 5% 50V
C359	1-126-160-11	s ELECT 1uF 20% 50V
C371	1-124-584-00	s ELECT 100uF 20% 10V
C372	1-124-584-00	s ELECT 100uF 20% 10V
C373	1-126-022-11	s ELECT 47uF 20% 25V
C374	1-163-038-00	s CAP, CHIP 0.1uF 25V
C375	1-126-022-11	s ELECT 47uF 20% 25V
C376	1-163-038-00	s CAP, CHIP 0.1uF 25V
C377	1-126-022-11	s ELECT 47uF 20% 25V
C378	1-163-038-00	s CAP, CHIP 0.1uF 25V
C379	1-126-022-11	s ELECT 47uF 20% 25V
C380	1-163-038-00	s CAP, CHIP 0.1uF 25V
C386	1-163-038-00	s CAP, CHIP 0.1uF 25V
C387	1-163-038-00	s CAP, CHIP 0.1uF 25V
C388	1-163-038-00	s CAP, CHIP 0.1uF 25V
C390	1-163-038-00	s CAP, CHIP 0.1uF 25V
C401 to C405	1-163-038-00	s CAP, CHIP 0.1uF 25V
C407 to C420	1-163-038-00	s CAP, CHIP 0.1uF 25V
C421	1-130-495-00	s MYLAR 0.1uF 5% 50V
C422	1-130-495-00	s MYLAR 0.1uF 5% 50V
C423	1-136-165-00	s FILM 0.1uF 5% 50V
C424	1-130-471-00	s MYLAR 0.001uF 5% 50V
C425	1-163-038-00	s CAP, CHIP 0.1uF 25V
C426	1-136-165-00	s FILM 0.1uF 5% 50V
C427	1-130-471-00	s MYLAR 0.001uF 5% 50V
C428	1-163-038-00	s CAP, CHIP 0.1uF 25V
C429	1-162-670-11	s CERAMIC 18PF 5% 50V
C430	1-124-584-00	s ELECT 100uF 20% 10V
C431	1-124-584-00	s ELECT 100uF 20% 10V
C432	1-124-584-00	s ELECT 100uF 20% 10V
C433	1-124-584-00	s ELECT 100uF 20% 10V
C434	1-126-925-11	s ELECT 470uF 20% 10V
C435	1-124-584-00	s ELECT 100uF 20% 10V
C451 to C463	1-163-038-00	s CAP, CHIP 0.1uF 25V
C467	1-163-038-00	s CAP, CHIP 0.1uF 25V
C470	1-163-038-00	s CAP, CHIP 0.1uF 25V
C501 to C518	1-163-038-00	s CAP, CHIP 0.1uF 25V
C601 to C617	1-163-038-00	s CAP, CHIP 0.1uF 25V
C701	1-163-038-00	s CAP, CHIP 0.1uF 25V
C702	1-126-101-11	s ELECT 100uF 20% 16V
C703	1-136-165-00	s FILM 0.1uF 5% 50V
C704	1-126-101-11	s ELECT 100uF 20% 16V
C705	1-136-165-00	s FILM 0.1uF 5% 50V
C706	1-126-101-11	s ELECT 100uF 20% 16V
C707 to C711	1-136-165-00	s FILM 0.1uF 5% 50V

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(CPU-144 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
C712	1-126-101-11	s ELECT 100uF 20% 16V
C713	1-136-165-00	s FILM 0.1uF 5% 50V
C714	1-126-101-11	s ELECT 100uF 20% 16V
C715	1-136-165-00	s FILM 0.1uF 5% 50V
C716	1-126-101-11	s ELECT 100uF 20% 16V
C717 to C721	1-136-165-00	s FILM 0.1uF 5% 50V
C722	1-126-101-11	s ELECT 100uF 20% 16V
C723	1-136-165-00	s FILM 0.1uF 5% 50V
C724	1-126-101-11	s ELECT 100uF 20% 16V
C725	1-136-165-00	s FILM 0.1uF 5% 50V
C726	1-126-101-11	s ELECT 100uF 20% 16V
C727 to C731	1-136-165-00	s FILM 0.1uF 5% 50V
C732	1-126-101-11	s ELECT 100uF 20% 16V
C733	1-136-165-00	s FILM 0.1uF 5% 50V
C734	1-126-101-11	s ELECT 100uF 20% 16V
C735	1-136-165-00	s FILM 0.1uF 5% 50V
C736	1-126-101-11	s ELECT 100uF 20% 16V
C737 to C742	1-136-165-00	s FILM 0.1uF 5% 50V
C751 to C759	1-136-165-00	s FILM 0.1uF 5% 50V
C760	1-126-101-11	s ELECT 100uF 20% 16V
C761	1-136-165-00	s FILM 0.1uF 5% 50V
C762	1-126-101-11	s ELECT 100uF 20% 16V
C763	1-136-165-00	s FILM 0.1uF 5% 50V
C764	1-126-101-11	s ELECT 100uF 20% 16V
C765	1-136-165-00	s FILM 0.1uF 5% 50V
C766	1-126-101-11	s ELECT 100uF 20% 16V
C767 to C775	1-136-165-00	s FILM 0.1uF 5% 50V
C776	1-126-101-11	s ELECT 100uF 20% 16V
C777	1-136-165-00	s FILM 0.1uF 5% 50V
C778	1-126-101-11	s ELECT 100uF 20% 16V
C779	1-136-165-00	s FILM 0.1uF 5% 50V
C780	1-126-101-11	s ELECT 100uF 20% 16V
C781	1-136-165-00	s FILM 0.1uF 5% 50V
C782	1-126-101-11	s ELECT 100uF 20% 16V
C783	1-136-165-00	s FILM 0.1uF 5% 50V
C784	1-126-101-11	s ELECT 100uF 20% 16V
C785	1-136-165-00	s FILM 0.1uF 5% 50V
C786	1-126-101-11	s ELECT 100uF 20% 16V
C787	1-136-165-00	s FILM 0.1uF 5% 50V
C788	1-126-101-11	s ELECT 100uF 20% 16V
C789	1-136-165-00	s FILM 0.1uF 5% 50V
C790	1-126-101-11	s ELECT 100uF 20% 16V
C791	1-136-165-00	s FILM 0.1uF 5% 50V
C792	1-136-165-00	s FILM 0.1uF 5% 50V
C801	1-130-474-00	s MYLAR 0.0018uF 5% 50V
C802	1-136-165-00	s FILM 0.1uF 5% 50V
C803	1-136-165-00	s FILM 0.1uF 5% 50V
C804	1-136-165-00	s FILM 0.1uF 5% 50V
C805	1-136-165-00	s FILM 0.1uF 5% 50V
C806	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C807	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C808	1-130-477-00	s MYLAR 0.0033uF 5% 50V

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Ref. No. or Q'ty	Part No.	SP Description
C809	1-130-495-00	s MYLAR 0.1uF 5% 50V
C810	1-130-495-00	s MYLAR 0.1uF 5% 50V
C811	1-126-941-11	s ELECT 470uF 20% 25V
C812	1-126-941-11	s ELECT 470uF 20% 25V
C821	1-130-474-00	s MYLAR 0.0018uF 5% 50V
C822	1-136-165-00	s FILM 0.1uF 5% 50V
C823	1-136-165-00	s FILM 0.1uF 5% 50V
C824	1-136-165-00	s FILM 0.1uF 5% 50V
C825	1-136-165-00	s FILM 0.1uF 5% 50V
C826	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C827	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C828	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C829	1-130-495-00	s MYLAR 0.1uF 5% 50V
C830	1-130-495-00	s MYLAR 0.1uF 5% 50V
C831	1-126-941-11	s ELECT 470uF 20% 25V
C832	1-126-941-11	s ELECT 470uF 20% 25V
C841	1-130-474-00	s MYLAR 0.0018uF 5% 50V
C842	1-136-165-00	s FILM 0.1uF 5% 50V
C843	1-136-165-00	s FILM 0.1uF 5% 50V
C844	1-136-165-00	s FILM 0.1uF 5% 50V
C845	1-136-165-00	s FILM 0.1uF 5% 50V
C846	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C847	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C848	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C849	1-130-495-00	s MYLAR 0.1uF 5% 50V
C850	1-130-495-00	s MYLAR 0.1uF 5% 50V
C851	1-126-941-11	s ELECT 470uF 20% 25V
C852	1-126-941-11	s ELECT 470uF 20% 25V
C861	1-130-474-00	s MYLAR 0.0018uF 5% 50V
C862	1-136-165-00	s FILM 0.1uF 5% 50V
C863	1-136-165-00	s FILM 0.1uF 5% 50V
C864	1-136-165-00	s FILM 0.1uF 5% 50V
C865	1-136-165-00	s FILM 0.1uF 5% 50V
C866	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C867	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C868	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C869	1-130-495-00	s MYLAR 0.1uF 5% 50V
C870	1-130-495-00	s MYLAR 0.1uF 5% 50V
C871	1-126-941-11	s ELECT 470uF 20% 25V
C872	1-126-941-11	s ELECT 470uF 20% 25V
C881	1-130-474-00	s MYLAR 0.0018uF 5% 50V
C882	1-136-165-00	s FILM 0.1uF 5% 50V
C883	1-136-165-00	s FILM 0.1uF 5% 50V
C884	1-136-165-00	s FILM 0.1uF 5% 50V
C885	1-136-165-00	s FILM 0.1uF 5% 50V
C886	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C887	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C888	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C889	1-130-495-00	s MYLAR 0.1uF 5% 50V
C890	1-130-495-00	s MYLAR 0.1uF 5% 50V
C891	1-126-941-11	s ELECT 470uF 20% 25V
C892	1-126-941-11	s ELECT 470uF 20% 25V
C901	1-130-474-00	s MYLAR 0.0018uF 5% 50V
C902	1-136-165-00	s FILM 0.1uF 5% 50V
C903	1-136-165-00	s FILM 0.1uF 5% 50V
C904	1-136-165-00	s FILM 0.1uF 5% 50V
C905	1-136-165-00	s FILM 0.1uF 5% 50V
C906	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C907	1-130-477-00	s MYLAR 0.0033uF 5% 50V

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(CPU-144 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
C908	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C909	1-130-495-00	s MYLAR 0.1uF 5% 50V
C910	1-130-495-00	s MYLAR 0.1uF 5% 50V
C911	1-126-941-11	s ELECT 470uF 20% 25V
C912	1-126-941-11	s ELECT 470uF 20% 25V
C921	1-130-474-00	s MYLAR 0.0018uF 5% 50V
C922	1-136-165-00	s FILM 0.1uF 5% 50V
C923	1-136-165-00	s FILM 0.1uF 5% 50V
C924	1-136-165-00	s FILM 0.1uF 5% 50V
C925	1-136-165-00	s FILM 0.1uF 5% 50V
C926	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C927	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C928	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C929	1-130-495-00	s MYLAR 0.1uF 5% 50V
C930	1-130-495-00	s MYLAR 0.1uF 5% 50V
C931	1-126-941-11	s ELECT 470uF 20% 25V
C932	1-126-941-11	s ELECT 470uF 20% 25V
C941	1-130-474-00	s MYLAR 0.0018uF 5% 50V
C942	1-136-165-00	s FILM 0.1uF 5% 50V
C943	1-136-165-00	s FILM 0.1uF 5% 50V
C944	1-136-165-00	s FILM 0.1uF 5% 50V
C945	1-136-165-00	s FILM 0.1uF 5% 50V
C946	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C947	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C948	1-130-477-00	s MYLAR 0.0033uF 5% 50V
C949	1-130-495-00	s MYLAR 0.1uF 5% 50V
C950	1-130-495-00	s MYLAR 0.1uF 5% 50V
C951	1-126-941-11	s ELECT 470uF 20% 25V
C952	1-126-941-11	s ELECT 470uF 20% 25V
C961	1-130-495-00	s MYLAR 0.1uF 5% 50V
C962	1-130-495-00	s MYLAR 0.1uF 5% 50V
C963	1-126-101-11	s ELECT 100uF 20% 16V
C964	1-126-101-11	s ELECT 100uF 20% 16V
C965	1-126-101-11	s ELECT 100uF 20% 16V
C966	1-126-101-11	s ELECT 100uF 20% 16V
C967	1-124-913-11	s ELECT 470uF 20% 50V
C968	1-124-913-11	s ELECT 470uF 20% 50V
C969	1-124-913-11	s ELECT 470uF 20% 50V
C970	1-124-913-11	s ELECT 470uF 20% 50V
C981	1-130-495-00	s MYLAR 0.1uF 5% 50V
C982	1-130-495-00	s MYLAR 0.1uF 5% 50V
C983	1-126-101-11	s ELECT 100uF 20% 16V
C984	1-126-101-11	s ELECT 100uF 20% 16V
C985	1-126-101-11	s ELECT 100uF 20% 16V
C986	1-126-101-11	s ELECT 100uF 20% 16V
C987	1-124-913-11	s ELECT 470uF 20% 50V
C988	1-124-913-11	s ELECT 470uF 20% 50V
C989	1-124-913-11	s ELECT 470uF 20% 50V
C990	1-124-913-11	s ELECT 470uF 20% 50V
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN3	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN4	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CNI100	1-526-816-21	s SOCKET, IC (DP) 24P
CNI102	1-526-656-00	s SOCKET, IC (DP) 20P
CNI116	1-526-816-21	s SOCKET, IC (DP) 24P
CNI117	1-526-816-21	s SOCKET, IC (DP) 24P
CNI151	1-526-662-21	o SOCKET, IC (DP) 40P

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Ref. No. or Q'ty	Part No.	SP Description
CNI152	1-526-662-21	o SOCKET, IC (DP) 40P
CNI316	1-526-656-00	s SOCKET, IC (DP) 20P
CNI457	1-526-816-21	s SOCKET, IC (DP) 24P
CNI501	1-526-816-21	s SOCKET, IC (DP) 24P
COR151	1-564-947-21	o PIN, SHORTING, 2P
COR152	1-564-947-21	o PIN, SHORTING, 2P
CP101	8-759-939-39	s IC DAN801
CP102	8-759-939-38	s IC DAP801
D101	8-719-812-31	s LED TLR123, RED
D102	8-719-812-31	s LED TLR123, RED
D103	8-719-812-43	s LED TLG124A, GRN
to D110		
D111	8-719-911-19	s DIODE 1SS119
D112	8-719-911-19	s DIODE 1SS119
D151	8-719-987-87	s DIODE ERA85-009
D201	8-719-812-43	s LED TLG124A, GRN
to D208		
D301	8-719-911-19	s DIODE 1SS119
D302	8-719-911-19	s DIODE 1SS119
D303	8-719-911-19	s DIODE 1SS119
D304	8-719-911-19	s DIODE 1SS119
D305	8-719-109-85	s DIODE RD5.1ES-B2
D306	8-719-911-19	s DIODE 1SS119
D307	8-719-032-05	s DIODE KV1460TL00
D308	8-719-032-05	s DIODE KV1460TL00
D309	8-719-032-05	s DIODE KV1460TL00
D310	8-719-911-19	s DIODE 1SS119
D451	8-719-812-42	s DIODE TLY124
D501	8-719-812-42	s DIODE TLY124
to D506		
D507	8-719-812-43	s LED TLG124A, GRN
D508	8-719-812-43	s LED TLG124A, GRN
D961	8-719-911-19	s DIODE 1SS119
D962	8-719-911-19	s DIODE 1SS119
D963	8-719-911-19	s DIODE 1SS119
D964	8-719-911-19	s DIODE 1SS119
D965	8-719-110-47	s DIODE RD18ESB
D966	8-719-110-47	s DIODE RD18ESB
D967	8-719-110-47	s DIODE RD18ESB
D968	8-719-110-47	s DIODE RD18ESB
D969	8-719-911-19	s DIODE 1SS119
D981	8-719-911-19	s DIODE 1SS119
D982	8-719-911-19	s DIODE 1SS119
D983	8-719-911-19	s DIODE 1SS119
D984	8-719-911-19	s DIODE 1SS119
D985	8-719-110-47	s DIODE RD18ESB
D986	8-719-110-47	s DIODE RD18ESB
D987	8-719-110-47	s DIODE RD18ESB
D988	8-719-110-47	s DIODE RD18ESB
D989	8-719-911-19	s DIODE 1SS119
FL1	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
FL2	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
FL11	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
FL12	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
FL13	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
FL54	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
FL55	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(CPU-144 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
FL101	1-236-071-11	s ENCAPSULATED COMPONENT, LC
IC1	8-759-708-05	s IC NJM78L05A
IC2	8-759-700-65	s IC NJM79L05A
IC3	8-759-708-05	s IC NJM78L05A
IC4	8-759-700-65	s IC NJM79L05A
IC5	8-759-708-05	s IC NJM78L05A
IC6	8-759-700-65	s IC NJM79L05A
IC7	8-759-708-05	s IC NJM78L05A
IC8	8-759-700-65	s IC NJM79L05A
IC9	8-759-013-10	s IC MC7815CT
IC10	8-759-012-72	s IC MC7915CT
IC51	8-759-708-05	s IC NJM78L05A
IC52	8-759-700-65	s IC NJM79L05A
IC53	8-759-708-05	s IC NJM78L05A
IC54	8-759-700-65	s IC NJM79L05A
IC55	8-759-708-05	s IC NJM78L05A
IC56	8-759-700-65	s IC NJM79L05A
IC57	8-759-708-05	s IC NJM78L05A
IC58	8-759-700-65	s IC NJM79L05A
IC100	8-759-262-12	o IC 22V10B-IODEC8-V1.0
IC101	8-759-194-86	s IC MC68302FC16C
IC102	8-759-262-23	o IC 16V8B-DPDEC8-V1.0
IC103	8-759-972-58	s IC MAX238CNG
IC104	8-759-989-91	s IC TL7705ACPS
IC105	8-759-244-12	s IC TC74AC175F
IC106	8-759-926-23	s IC SN74HC163ANS
IC107	8-759-926-23	s IC SN74HC163ANS
IC108	8-759-926-77	s IC SN74HC541ANS
IC109	8-759-926-54	s IC SN74HC259ANS
IC110	8-759-033-10	s IC MC74F32M
IC111	8-759-033-02	s IC MC74F04M
IC112	8-759-239-92	s IC TC74HC07AF
IC114	8-759-925-80	s IC SN74HC14ANS
IC115	8-759-927-46	s IC SN74HC00ANS
IC116	8-759-262-26	o IC 22V10B-MEMDECC-V1.0
IC117	8-759-262-11	o IC 22V10B-CPUDEC8-V1.0
IC118	8-759-926-77	s IC SN74HC541ANS
IC119	8-759-951-24	s IC SN75124N
IC120	8-759-008-57	s IC MC34051P
IC151	8-759-262-09	o IC 27C210A-DEBUG-V1.00
IC155	8-752-365-27	s IC CXK581000AM-70LL-TL
to IC162		
IC163	8-759-982-65	s IC ICL7665SCPA
IC201	8-759-033-44	s IC MC74F245M
IC202	8-759-033-44	s IC MC74F245M
IC203	8-759-993-54	s IC 74F541SJ
to IC207		
IC209	8-759-993-54	s IC 74F541SJ
IC210	8-759-926-49	s IC SN74HC245NS
IC211	8-759-926-49	s IC SN74HC245NS
IC212	8-759-926-77	s IC SN74HC541ANS
to IC219		
IC220	8-759-925-82	s IC SN74HC21ANS
IC221	8-759-925-76	s IC SN74HC08ANS
IC222	8-759-925-82	s IC SN74HC21ANS
IC223	8-759-926-77	s IC SN74HC541ANS
IC224	8-759-926-82	s IC SN74HC574ANS
IC225	8-759-926-77	s IC SN74HC541ANS

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Ref. No. or Q'ty	Part No.	SP Description
IC226	8-759-926-82	s IC SN74HC574ANS
IC227	8-759-926-11	s IC SN74HC138ANS
IC301	8-759-972-26	s IC LM1881N
IC302	8-759-951-24	s IC SN75124N
IC303	8-759-926-07	s IC SN74HC132ANS
IC304	8-759-927-46	s IC SN74HC00ANS
IC305	8-759-239-55	s IC TC74HC123AF
IC306	8-759-990-84	s IC TL084CN
IC307	8-759-503-91	s IC TL082CP
IC308	8-759-503-91	s IC TL082CP
IC309	8-759-200-11	s IC TC4011UBP
IC310	8-759-200-11	s IC TC4011UBP
IC311	8-759-925-78	s IC SN74HC10ANS
IC312	8-759-008-13	s IC MC74HC390F
IC313	8-759-239-55	s IC TC74HC123AF
IC314	8-759-925-90	s IC SN74HC74ANS
IC315	8-759-925-90	s IC SN74HC74ANS
IC316	8-759-247-73	o IC GAL16V8B-VPLLB-V1.0
IC317	8-759-926-23	s IC SN74HC163ANS
IC318	8-759-926-23	s IC SN74HC163ANS
IC319	8-759-925-74	s IC TC74HC04ANS
IC320	8-759-951-23	s IC SN75123N
IC321	8-759-231-58	s IC M5F7812L
IC322	8-759-701-88	s IC NJM7912FA
IC401	8-759-239-55	s IC TC74HC123AF
IC402	8-759-069-38	s IC CXD8278AQ
IC403	8-759-927-46	s IC SN74HC00ANS
IC404	8-752-306-51	s IC CX23065A
IC405	8-759-931-43	s IC SN74LS624NS
IC407	8-759-927-46	s IC SN74HC00ANS
IC408	8-752-306-51	s IC CX23065A
IC409	8-759-925-72	s IC SN74HC02ANS
IC410	8-759-985-26	s IC 74AC74SJ
IC411	8-759-985-41	s IC 74AC163SJ
IC412	8-759-985-41	s IC 74AC163SJ
IC413	8-759-073-52	s IC TC74AC04F-EL
IC414	8-759-985-78	s IC 74AC541SJ
IC415	8-759-926-82	s IC SN74HC574ANS
IC416	8-759-925-90	s IC SN74HC74ANS
IC417	8-759-926-23	s IC SN74HC163ANS
IC418	8-759-951-23	s IC SN75123N
IC419	8-759-985-78	s IC 74AC541SJ
IC420	8-759-985-78	s IC 74AC541SJ
IC451	8-759-925-85	s IC SN74HC32ANS
IC452	8-759-925-76	s IC SN74HC08ANS
IC453	8-759-926-23	s IC SN74HC163ANS
IC454	8-759-926-23	s IC SN74HC163ANS
IC455	8-759-926-82	s IC SN74HC574ANS
IC456	8-759-994-41	s IC CXD8025Q
IC457	8-759-262-24	o IC 22V10B-DSPDEC8-V1.0
IC458	8-759-926-11	s IC SN74HC138ANS
IC459	8-759-925-90	s IC SN74HC74ANS
IC460	8-759-925-90	s IC SN74HC74ANS
IC461	8-759-925-90	s IC SN74HC74ANS
IC462	8-759-985-78	s IC 74AC541SJ
IC463	8-759-926-11	s IC SN74HC138ANS
IC467	8-759-926-77	s IC SN74HC541ANS
IC468	8-759-925-90	s IC SN74HC74ANS
IC470	8-759-925-74	s IC TC74HC04ANS

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(CPU-144 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
IC501	8-759-262-16	o IC 22V10B-PPHDEC-V1.0
IC502	8-759-926-11	s IC SN74HC138ANS
IC503	8-759-926-11	s IC SN74HC138ANS
IC504	8-759-169-85	s IC CXD8834Q
IC505	8-759-926-82	s IC SN74HC574ANS
IC506	8-759-926-82	s IC SN74HC574ANS
IC507	8-759-926-82	s IC SN74HC574ANS
IC508	8-759-926-82	s IC SN74HC574ANS
IC509	8-759-926-76	s IC SN74HC540ANS
IC510	8-759-926-77	s IC SN74HC541ANS
IC511	8-759-926-77	s IC SN74HC541ANS
IC512	8-759-926-77	s IC SN74HC541ANS
IC513	8-759-926-77	s IC SN74HC541ANS
IC514	8-759-926-11	s IC SN74HC138ANS
IC515	8-759-926-82	s IC SN74HC574ANS
IC516	8-759-926-82	s IC SN74HC574ANS
IC517	8-759-926-82	s IC SN74HC574ANS
IC518	8-759-926-82	s IC SN74HC574ANS
IC601	8-752-352-30	s IC CXD2705AQ
IC602	8-752-352-30	s IC CXD2705AQ
IC603	8-752-343-18	s IC CXD2704Q
IC604	8-752-343-18	s IC CXD2704Q
IC605	8-752-343-18	s IC CXD2704Q
IC606	8-752-343-18	s IC CXD2704Q
IC607	8-759-926-77	s IC SN74HC541ANS
IC608	8-759-926-77	s IC SN74HC541ANS
IC609	8-759-926-17	s IC SN74HC153ANS
IC610	8-759-926-15	s IC SN74HC151ANS
to IC614		
IC615	8-759-925-88	s IC SN74HC51NS
IC616	8-759-925-74	s IC TC74HC04ANS
IC617	8-759-926-77	s IC SN74HC541ANS
IC701	8-759-156-71	s IC SM583AP1
IC702	8-759-156-71	s IC SM583AP1
IC703	8-759-510-35	s IC PCM63P-K
IC704	8-759-510-35	s IC PCM63P-K
IC705	8-759-510-35	s IC PCM63P-K
IC706	8-759-510-35	s IC PCM63P-K
IC707	8-759-156-71	s IC SM583AP1
IC708	8-759-156-71	s IC SM583AP1
IC709	8-759-510-35	s IC PCM63P-K
IC710	8-759-510-35	s IC PCM63P-K
IC711	8-759-510-35	s IC PCM63P-K
IC712	8-759-510-35	s IC PCM63P-K
IC801	8-759-900-72	s IC NE5532P
IC802	8-759-900-72	s IC NE5532P
IC803	8-759-158-99	s IC SSM-2142P
IC821	8-759-900-72	s IC NE5532P
IC822	8-759-900-72	s IC NE5532P
IC823	8-759-158-99	s IC SSM-2142P
IC841	8-759-900-72	s IC NE5532P
IC842	8-759-900-72	s IC NE5532P
IC843	8-759-158-99	s IC SSM-2142P
IC861	8-759-900-72	s IC NE5532P
IC862	8-759-900-72	s IC NE5532P
IC863	8-759-158-99	s IC SSM-2142P
IC881	8-759-900-72	s IC NE5532P
IC882	8-759-900-72	s IC NE5532P
IC883	8-759-158-99	s IC SSM-2142P

(CPU-144 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
IC901	8-759-900-72	s IC NE5532P
IC902	8-759-900-72	s IC NE5532P
IC903	8-759-158-99	s IC SSM-2142P
IC921	8-759-900-72	s IC NE5532P
IC922	8-759-900-72	s IC NE5532P
IC923	8-759-158-99	s IC SSM-2142P
IC941	8-759-900-72	s IC NE5532P
IC942	8-759-900-72	s IC NE5532P
IC943	8-759-158-99	s IC SSM-2142P
IC961	8-759-158-99	s IC SSM-2142P
IC981	8-759-158-99	s IC SSM-2142P
L301	1-410-517-11	s INDUCTOR 47uH
L401	1-410-517-11	s INDUCTOR 47uH
Q301	8-729-178-55	s TRANSISTOR 2SC2785-E
Q302	8-729-119-78	s TRANSISTOR 2SC2785-HFE
Q303	8-729-207-36	s TRANSISTOR 2SJ105-GR
Q304	8-729-207-36	s TRANSISTOR 2SJ105-GR
Q305	8-729-201-53	s TRANSISTOR 2SA1015-GR
Q306	8-729-207-36	s TRANSISTOR 2SJ105-GR
Q307	8-729-207-36	s TRANSISTOR 2SJ105-GR
Q308	8-729-207-36	s TRANSISTOR 2SJ105-GR
Q961	8-729-111-55	s TRANSISTOR 2SD1312-K
Q962	8-729-111-52	s TRANSISTOR 2SB984-K
Q963	8-729-111-55	s TRANSISTOR 2SD1312-K
Q964	8-729-111-52	s TRANSISTOR 2SB984-K
Q965	8-729-900-37	s TRANSISTOR DTC124EF
Q981	8-729-111-55	s TRANSISTOR 2SD1312-K
Q982	8-729-111-52	s TRANSISTOR 2SB984-K
Q983	8-729-111-55	s TRANSISTOR 2SD1312-K
Q984	8-729-111-52	s TRANSISTOR 2SB984-K
Q985	8-729-900-37	s TRANSISTOR DTC124EF
R1	1-249-411-11	s CARBON 330 5% 1/4W
R2	1-249-409-11	s CARBON 220 5% 1/4W
R3	1-249-409-11	s CARBON 220 5% 1/4W
R4	1-249-411-11	s CARBON 330 5% 1/4W
R5	1-249-409-11	s CARBON 220 5% 1/4W
R6	1-249-409-11	s CARBON 220 5% 1/4W
R7	1-249-411-11	s CARBON 330 5% 1/4W
R8	1-249-409-11	s CARBON 220 5% 1/4W
R9	1-249-409-11	s CARBON 220 5% 1/4W
R10	1-249-411-11	s CARBON 330 5% 1/4W
R11	1-249-409-11	s CARBON 220 5% 1/4W
R12	1-249-409-11	s CARBON 220 5% 1/4W
R51	1-249-411-11	s CARBON 330 5% 1/4W
R52	1-249-409-11	s CARBON 220 5% 1/4W
R53	1-249-409-11	s CARBON 220 5% 1/4W
R54	1-249-411-11	s CARBON 330 5% 1/4W
R55	1-249-409-11	s CARBON 220 5% 1/4W
R56	1-249-409-11	s CARBON 220 5% 1/4W
R57	1-249-411-11	s CARBON 330 5% 1/4W
R58	1-249-409-11	s CARBON 220 5% 1/4W
R59	1-249-409-11	s CARBON 220 5% 1/4W
R60	1-249-411-11	s CARBON 330 5% 1/4W
R61	1-249-409-11	s CARBON 220 5% 1/4W
R62	1-249-409-11	s CARBON 220 5% 1/4W
R101	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
to R106		

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(CPU-144 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
R107	1-215-398-00	s METAL 110 1% 1/6W
R108	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R109	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R110	1-215-394-00	s METAL 75 1% 1/6W
R111	1-215-389-00	s METAL 47 1% 1/6W
R112	1-249-393-11	s CARBON 10 5% 1/4W
R113	1-249-393-11	s CARBON 10 5% 1/4W
R114	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R115	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R116	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R117	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R118	1-249-393-11	s CARBON 10 5% 1/4W
R119	1-249-393-11	s CARBON 10 5% 1/4W
R120	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R121	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R122	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R123	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R124	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R125	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R130	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R131	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R132	1-249-411-11	s CARBON 330 5% 1/4W
R133	1-249-411-11	s CARBON 330 5% 1/4W
R151	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R152	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R155	1-215-451-00	s METAL 18K 1% 1/6W
R156	1-215-445-00	s METAL 10K 1% 1/6W
R157	1-247-883-00	s CARBON 150K 5% 1/4W
R158	1-249-393-11	s CARBON 10 5% 1/4W
R159	1-249-441-11	s CARBON 100K 5% 1/4W
R301	1-215-385-00	s METAL 33 1% 1/6W
R302	1-215-413-00	s METAL 470 1% 1/6W
R303	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R305	1-215-394-00	s METAL 75 1% 1/6W
R306	1-215-389-00	s METAL 47 1% 1/6W
R307	1-215-477-00	s METAL 220K 1% 1/6W
R308	1-215-461-00	s METAL 47K 1% 1/6W
R309	1-215-421-00	s METAL 1K 1% 1/6W
R310	1-215-489-00	s METAL 680K 1% 1/6W
R311	1-249-425-11	s CARBON 4.7K 5% 1/4W
R312	1-247-887-00	s CARBON 220K 5% 1/4W
R313	1-249-425-11	s CARBON 4.7K 5% 1/4W
R314	1-247-895-00	s CARBON 470K 5% 1/4W
R315	1-215-447-00	s METAL 12K 1% 1/6W
R316	1-215-493-00	s METAL 1M 1% 1/6W
R317	1-215-463-00	s METAL 56K 1% 1/6W
R318	1-215-445-00	s METAL 10K 1% 1/6W
R319	1-215-445-00	s METAL 10K 1% 1/6W
R320	1-215-447-00	s METAL 12K 1% 1/6W
R321	1-215-415-00	s METAL 560 1% 1/6W
R322	1-215-439-00	s METAL 5.6K 1% 1/6W
R323	1-215-445-00	s METAL 10K 1% 1/6W
R324	1-215-447-00	s METAL 12K 1% 1/6W
R325	1-215-439-00	s METAL 5.6K 1% 1/6W
R326	1-215-493-00	s METAL 1M 1% 1/6W
R327	1-215-439-00	s METAL 5.6K 1% 1/6W
R328	1-215-391-00	s METAL 56 1% 1/6W
R329	1-215-463-00	s METAL 56K 1% 1/6W
R330	1-215-397-00	s METAL 100 1% 1/6W

(CPU-144 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
R331	1-215-445-00	s METAL 10K 1% 1/6W
R332	1-215-445-00	s METAL 10K 1% 1/6W
R333	1-215-445-00	s METAL 10K 1% 1/6W
R334	1-215-493-00	s METAL 1M 1% 1/6W
R335	1-215-445-00	s METAL 10K 1% 1/6W
R336	1-215-463-00	s METAL 56K 1% 1/6W
R401	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R402	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R403	1-215-421-00	s METAL 1K 1% 1/6W
R404	1-215-437-00	s METAL 4.7K 1% 1/6W
R405	1-215-421-00	s METAL 1K 1% 1/6W
R406	1-215-429-00	s METAL 2.2K 1% 1/6W
R407	1-215-429-00	s METAL 2.2K 1% 1/6W
R408	1-215-423-00	s METAL 1.2K 1% 1/6W
R409	1-215-438-00	s METAL 5.1K 1% 1/6W
R410	1-215-421-00	s METAL 1K 1% 1/6W
R411	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R451	1-249-413-11	s CARBON 470 5% 1/4W
R801	1-215-429-00	s METAL 2.2K 1% 1/6W
R802	1-215-423-00	s METAL 1.2K 1% 1/6W
R803	1-215-423-00	s METAL 1.2K 1% 1/6W
R804	1-215-423-00	s METAL 1.2K 1% 1/6W
R805	1-215-423-00	s METAL 1.2K 1% 1/6W
R806	1-215-429-00	s METAL 2.2K 1% 1/6W
R807	1-215-435-00	s METAL 3.9K 1% 1/6W
R808	1-215-435-00	s METAL 3.9K 1% 1/6W
R809	1-215-435-00	s METAL 3.9K 1% 1/6W
R810	1-215-397-00	s METAL 100 1% 1/6W
R821	1-215-429-00	s METAL 2.2K 1% 1/6W
R822	1-215-423-00	s METAL 1.2K 1% 1/6W
R823	1-215-423-00	s METAL 1.2K 1% 1/6W
R824	1-215-423-00	s METAL 1.2K 1% 1/6W
R825	1-215-423-00	s METAL 1.2K 1% 1/6W
R826	1-215-429-00	s METAL 2.2K 1% 1/6W
R827	1-215-435-00	s METAL 3.9K 1% 1/6W
R828	1-215-435-00	s METAL 3.9K 1% 1/6W
R829	1-215-435-00	s METAL 3.9K 1% 1/6W
R830	1-215-397-00	s METAL 100 1% 1/6W
R841	1-215-429-00	s METAL 2.2K 1% 1/6W
R842	1-215-423-00	s METAL 1.2K 1% 1/6W
R843	1-215-423-00	s METAL 1.2K 1% 1/6W
R844	1-215-423-00	s METAL 1.2K 1% 1/6W
R845	1-215-423-00	s METAL 1.2K 1% 1/6W
R846	1-215-429-00	s METAL 2.2K 1% 1/6W
R847	1-215-435-00	s METAL 3.9K 1% 1/6W
R848	1-215-435-00	s METAL 3.9K 1% 1/6W
R850	1-215-397-00	s METAL 100 1% 1/6W
R861	1-215-429-00	s METAL 2.2K 1% 1/6W
R862	1-215-423-00	s METAL 1.2K 1% 1/6W
R863	1-215-423-00	s METAL 1.2K 1% 1/6W
R864	1-215-423-00	s METAL 1.2K 1% 1/6W
R865	1-215-423-00	s METAL 1.2K 1% 1/6W
R866	1-215-429-00	s METAL 2.2K 1% 1/6W
R867	1-215-435-00	s METAL 3.9K 1% 1/6W
R868	1-215-435-00	s METAL 3.9K 1% 1/6W
R870	1-215-397-00	s METAL 100 1% 1/6W
R881	1-215-429-00	s METAL 2.2K 1% 1/6W
R882	1-215-423-00	s METAL 1.2K 1% 1/6W
R883	1-215-423-00	s METAL 1.2K 1% 1/6W

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(CPU-144 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
R884	1-215-423-00	s METAL 1.2K 1% 1/6W
R885	1-215-423-00	s METAL 1.2K 1% 1/6W
R886	1-215-429-00	s METAL 2.2K 1% 1/6W
R887	1-215-435-00	s METAL 3.9K 1% 1/6W
R888	1-215-435-00	s METAL 3.9K 1% 1/6W
R890	1-215-397-00	s METAL 100 1% 1/6W
R901	1-215-429-00	s METAL 2.2K 1% 1/6W
R902	1-215-423-00	s METAL 1.2K 1% 1/6W
R903	1-215-423-00	s METAL 1.2K 1% 1/6W
R904	1-215-423-00	s METAL 1.2K 1% 1/6W
R905	1-215-423-00	s METAL 1.2K 1% 1/6W
R906	1-215-429-00	s METAL 2.2K 1% 1/6W
R907	1-215-435-00	s METAL 3.9K 1% 1/6W
R908	1-215-435-00	s METAL 3.9K 1% 1/6W
R910	1-215-397-00	s METAL 100 1% 1/6W
R921	1-215-429-00	s METAL 2.2K 1% 1/6W
R922	1-215-423-00	s METAL 1.2K 1% 1/6W
R923	1-215-423-00	s METAL 1.2K 1% 1/6W
R924	1-215-423-00	s METAL 1.2K 1% 1/6W
R925	1-215-423-00	s METAL 1.2K 1% 1/6W
R926	1-215-429-00	s METAL 2.2K 1% 1/6W
R927	1-215-435-00	s METAL 3.9K 1% 1/6W
R928	1-215-435-00	s METAL 3.9K 1% 1/6W
R930	1-215-397-00	s METAL 100 1% 1/6W
R941	1-215-429-00	s METAL 2.2K 1% 1/6W
R942	1-215-423-00	s METAL 1.2K 1% 1/6W
R943	1-215-423-00	s METAL 1.2K 1% 1/6W
R944	1-215-423-00	s METAL 1.2K 1% 1/6W
R945	1-215-423-00	s METAL 1.2K 1% 1/6W
R946	1-215-429-00	s METAL 2.2K 1% 1/6W
R947	1-215-435-00	s METAL 3.9K 1% 1/6W
R948	1-215-435-00	s METAL 3.9K 1% 1/6W
R950	1-215-397-00	s METAL 100 1% 1/6W
R961	1-215-397-00	s METAL 100 1% 1/6W
R964	1-215-441-00	s METAL 6.8K 1% 1/6W
R965	1-215-441-00	s METAL 6.8K 1% 1/6W
R966	1-249-389-11	s CARBON 4.7 5% 1/4W
R967	1-249-389-11	s CARBON 4.7 5% 1/4W
R968	1-215-441-00	s METAL 6.8K 1% 1/6W
R969	1-215-441-00	s METAL 6.8K 1% 1/6W
R970	1-249-389-11	s CARBON 4.7 5% 1/4W
R971	1-249-389-11	s CARBON 4.7 5% 1/4W
R972	1-215-381-00	s METAL 22 1% 1/6W
R973	1-215-381-00	s METAL 22 1% 1/6W
R974	1-215-397-00	s METAL 100 1% 1/6W
R975	1-215-397-00	s METAL 100 1% 1/6W
R978	1-214-808-11	s METAL 4.7 1% 1/2W
R979	1-214-808-11	s METAL 4.7 1% 1/2W
R981	1-215-397-00	s METAL 100 1% 1/6W
R984	1-215-441-00	s METAL 6.8K 1% 1/6W
R985	1-215-441-00	s METAL 6.8K 1% 1/6W
R986	1-249-389-11	s CARBON 4.7 5% 1/4W
R987	1-249-389-11	s CARBON 4.7 5% 1/4W
R988	1-215-441-00	s METAL 6.8K 1% 1/6W
R989	1-215-441-00	s METAL 6.8K 1% 1/6W
R990	1-249-389-11	s CARBON 4.7 5% 1/4W
R991	1-249-389-11	s CARBON 4.7 5% 1/4W
R992	1-215-381-00	s METAL 22 1% 1/6W
R993	1-215-381-00	s METAL 22 1% 1/6W

(CPU-144 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
R994	1-215-397-00	s METAL 100 1% 1/6W
R995	1-215-397-00	s METAL 100 1% 1/6W
R998	1-214-808-11	s METAL 4.7 1% 1/2W
R999	1-214-808-11	s METAL 4.7 1% 1/2W
RB101	1-235-194-00	s RESISTOR BLOCK 4.7KX8
RB102	1-235-337-11	s RESISTOR BLOCK 22KX8
RB103	1-235-337-11	s RESISTOR BLOCK 22KX8
RB104	1-235-332-11	s RESISTOR BLOCK 470X8
RB105	1-231-541-00	s RESISTOR BLOCK 22Kx4
RB201	1-235-195-00	s RESISTOR BLOCK 10KX8
to RB205		
RB206	1-235-332-11	s RESISTOR BLOCK 470X8
RB451	1-231-541-00	s RESISTOR BLOCK 22Kx4
RB501	1-235-337-11	s RESISTOR BLOCK 22KX8
RB502	1-235-337-11	s RESISTOR BLOCK 22KX8
RB503	1-235-337-11	s RESISTOR BLOCK 22KX8
RB504	1-235-337-11	s RESISTOR BLOCK 22KX8
RB505	1-235-332-11	s RESISTOR BLOCK 470X8
RB601	1-231-533-00	s RESISTOR BLOCK 10Kx4
RB602	1-235-195-00	s RESISTOR BLOCK 10KX8
RB603	1-235-195-00	s RESISTOR BLOCK 10KX8
RV301	1-230-753-11	s RES, ADJ, CERMET 100K
RV302	1-230-753-11	s RES, ADJ, CERMET 100K
RV303	1-230-753-11	s RES, ADJ, CERMET 100K
RV801	1-230-749-21	s RES, ADJ, CERMET 5K
RV802	1-230-749-21	s RES, ADJ, CERMET 5K
RV821	1-230-749-21	s RES, ADJ, CERMET 5K
RV822	1-230-749-21	s RES, ADJ, CERMET 5K
RV841	1-230-749-21	s RES, ADJ, CERMET 5K
RV861	1-230-749-21	s RES, ADJ, CERMET 5K
RV881	1-230-749-21	s RES, ADJ, CERMET 5K
RV901	1-230-749-21	s RES, ADJ, CERMET 5K
RV921	1-230-749-21	s RES, ADJ, CERMET 5K
RV941	1-230-749-21	s RES, ADJ, CERMET 5K
RY962	1-515-716-11	s RELAY (TQ2-5V)
RY981	1-515-716-11	s RELAY (TQ2-5V)
S101	1-554-937-11	s SWITCH, PUSH
S102	1-570-266-11	s SWITCH, PUSH (1 KEY)
S103	1-570-623-11	s SWITCH, DIP 8-CKT
S501	1-570-623-11	s SWITCH, DIP 8-CKT
S502	1-570-623-11	s SWITCH, DIP 8-CKT
S503	1-570-623-11	s SWITCH, DIP 8-CKT
S504	1-570-623-11	s SWITCH, DIP 8-CKT
X1	1-577-258-11	s CRYSTAL, 32MHz
X2	1-577-170-11	s CRYSTAL, 50MHz
X301	1-567-853-11	s CRYSTAL, 4.8MHz
X302	1-567-852-11	s CRYSTAL, 4.41MHz
X303	1-567-851-11	s CRYSTAL 4.4MHz
X401	8-749-923-59	s IC VCO-8003

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

DP-131 BOARD/PROCESSOR

Ref. No.
or Q'ty Part No. SP Description

(For details for DP-131 board, see page 6-53.)

IPM-48 BOARD/PROCESSOR

Ref. No.
or Q'ty Part No. SP Description

1pc	A-8275-636-A	o MOUNTED CIRCUIT BOARD, IPM-48
2pcs	2-146-577-01	o LEVER (1), PC BOARD
2pcs	3-174-923-01	o LEVER (2), PC BOARD
4pcs	7-626-320-11	s PIN, SPRING 3X8
4pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
7pcs	7-682-903-01	s SCREW +PWH 3X5
4pcs	7-682-547-04	s SCREW +B 3X6
C122	1-126-163-11	s ELECT 4.7uF 20% 50V
C123	1-126-163-11	s ELECT 4.7uF 20% 50V
C124	1-126-163-11	s ELECT 4.7uF 20% 50V
C125	1-126-163-11	s ELECT 4.7uF 20% 50V
C127	1-126-157-11	s ELECT 10uF 20% 16V
C129	1-126-925-11	s ELECT 470uF 20% 10V
C130	1-126-925-11	s ELECT 470uF 20% 10V
C158	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
C159	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN3	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN4	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CNI110	1-526-656-00	s SOCKET, IC (DP) 20P
CNI111	1-526-656-00	s SOCKET, IC (DP) 20P
CNI112	1-526-656-00	s SOCKET, IC (DP) 20P
CNI113	1-526-816-21	s SOCKET, IC (DP) 24P
CNI152	1-526-662-21	o SOCKET, IC (DP) 40P
CNI153	1-526-662-21	o SOCKET, IC (DP) 40P
CNI308	1-526-816-21	s SOCKET, IC (DP) 24P
CNI315	1-526-816-21	s SOCKET, IC (DP) 24P
CNI407	1-526-816-21	s SOCKET, IC (DP) 24P
COP501	1-562-579-21	s PLUG, SHORTING
COP502	1-562-579-21	s PLUG, SHORTING
COR101	1-564-947-21	o PIN, SHORTING, 2P
COR102	1-564-947-21	o PIN, SHORTING, 2P
COR151	1-564-947-21	o PIN, SHORTING, 2P
COR152	1-564-947-21	o PIN, SHORTING, 2P
COR153	1-564-947-21	o PIN, SHORTING, 2P
COR154	1-564-947-21	o PIN, SHORTING, 2P
COR501	1-564-947-21	o PIN, SHORTING, 2P
COR502	1-564-947-21	o PIN, SHORTING, 2P
COR633	1-564-947-21	o PIN, SHORTING, 2P
		to COR648
D101	8-719-812-31	s LED TLR123, RED
D102	8-719-812-31	s LED TLR123, RED
D103	8-719-812-43	s LED TLG124A, GRN
		to D110
D151	8-719-987-87	s DIODE ERA85-009
D701	8-719-812-42	s DIODE TLY124
		to D709
D710	8-719-812-43	s LED TLG124A, GRN
		to D735
D736	8-719-812-42	s DIODE TLY124
FL101	1-236-071-11	s ENCAPSULATED COMPONENT, LC
IC101	8-759-194-86	s IC MC68302FC16C
IC102	8-759-972-58	s IC MAX238CNG

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(IPM-48 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
IC103	8-759-989-91	s IC TL7705ACPS
IC104	8-759-239-92	s IC TC74HC07AF
IC105	8-759-925-80	s IC SN74HC14ANS
IC106	8-759-927-46	s IC SN74HC00ANS
IC107	8-759-244-12	s IC TC74AC175F
IC108	8-759-926-23	s IC SN74HC163ANS
IC109	8-759-926-23	s IC SN74HC163ANS
IC110	8-759-262-22	o IC 16V8B-MEMDEC8-V1.0
IC111	8-759-262-23	o IC 16V8B-DPDEC8-V1.0
IC112	8-759-262-11	o IC 22V10B-CPUDEC8-V1.0
IC113	8-759-262-12	o IC 22V10B-IODEC8-V1.0
IC114	8-759-926-77	s IC SN74HC541ANS
IC115	8-759-926-54	s IC SN74HC259ANS
IC116	8-759-033-10	s IC MC74F32M
IC117	8-759-033-02	s IC MC74F04M
IC118	8-759-985-78	s IC 74AC541SJ
IC119	8-759-985-78	s IC 74AC541SJ
IC120	8-759-985-78	s IC 74AC541SJ
IC121	8-759-985-26	s IC 74AC74SJ
IC151	8-759-982-65	s IC ICL7665SCPA
IC152	8-759-262-20	o IC 27C210A-IPMAPL-V1.00
IC153	8-759-262-09	o IC 27C210A-DEBUG-V1.00
IC154	8-752-365-27	s IC CXK581000AM-70LL-TL
IC155	8-752-365-27	s IC CXK581000AM-70LL-TL
IC156	8-752-365-27	s IC CXK581000AM-70LL-TL
IC157	8-752-365-27	s IC CXK581000AM-70LL-TL
IC201	8-759-985-78	s IC 74AC541SJ
IC202	8-759-926-49	s IC SN74HC245NS
IC203	8-759-926-49	s IC SN74HC245NS
IC204	8-759-926-77	s IC SN74HC541ANS
to IC208		
IC209	8-759-510-88	s IC MB8431-90LPFQ
IC210	8-759-973-43	s IC MB8421-90LPFQ
IC211	8-759-985-78	s IC 74AC541SJ
IC212	8-759-985-78	s IC 74AC541SJ
IC213	8-759-985-78	s IC 74AC541SJ
IC214	8-759-033-44	s IC MC74F245M
IC215	8-759-033-44	s IC MC74F245M
IC216	8-759-993-54	s IC 74F541SJ
IC217	8-759-993-54	s IC 74F541SJ
IC218	8-759-993-54	s IC 74F541SJ
IC219	8-759-993-54	s IC 74F541SJ
IC220	8-759-993-54	s IC 74F541SJ
IC221	8-759-993-54	s IC 74F541SJ
IC222	8-759-925-74	s IC TC74HC04ANS
IC301	8-759-925-85	s IC SN74HC32ANS
IC302	8-759-925-76	s IC SN74HC08ANS
IC303	8-759-926-23	s IC SN74HC163ANS
IC304	8-759-926-23	s IC SN74HC163ANS
IC305	8-759-925-74	s IC TC74HC04ANS
IC306	8-759-926-82	s IC SN74HC574ANS
IC307	8-759-994-41	s IC CXD8025Q
IC308	8-759-262-24	o IC 22V10B-DSPDEC8-V1.0
IC309	8-759-985-78	s IC 74AC541SJ
IC310	8-759-985-78	s IC 74AC541SJ
IC311	8-759-926-11	s IC SN74HC138ANS
IC312	8-759-926-11	s IC SN74HC138ANS
IC313	8-759-926-11	s IC SN74HC138ANS
IC314	8-759-926-11	s IC SN74HC138ANS

(IPM-48 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
IC315	8-759-262-13	o IC 22V10B-DIDEC-V1.0
IC316	8-759-926-27	s IC SN74HC173NS
IC317	8-759-926-11	s IC SN74HC138ANS
IC318	8-759-985-26	s IC 74AC74SJ
IC401	8-759-925-80	s IC SN74HC14ANS
IC402	8-759-925-80	s IC SN74HC14ANS
IC403	8-759-925-80	s IC SN74HC14ANS
IC404	8-759-925-80	s IC SN74HC14ANS
IC405	8-759-926-77	s IC SN74HC541ANS
IC406	8-759-926-77	s IC SN74HC541ANS
IC407	8-759-262-25	o IC 22V10B-DIAGDEC-V1.0
IC408	8-759-977-89	s IC CXD8014G
IC409	8-759-925-80	s IC SN74HC14ANS
IC410	8-759-925-80	s IC SN74HC14ANS
IC502	8-759-169-85	s IC CXD8834Q
IC503	8-759-169-85	s IC CXD8834Q
IC504	8-759-169-85	s IC CXD8834Q
IC505	8-759-069-38	s IC CXD8278AQ
IC601	8-752-352-30	s IC CXD2705AQ
IC602	8-759-070-11	s IC TC514256BZ-60
IC603	8-759-070-11	s IC TC514256BZ-60
IC604	8-752-352-30	s IC CXD2705AQ
IC605	8-759-070-11	s IC TC514256BZ-60
IC606	8-759-070-11	s IC TC514256BZ-60
IC607	8-752-352-30	s IC CXD2705AQ
IC608	8-759-070-11	s IC TC514256BZ-60
IC609	8-759-070-11	s IC TC514256BZ-60
IC610	8-752-352-30	s IC CXD2705AQ
IC611	8-759-070-11	s IC TC514256BZ-60
IC612	8-759-070-11	s IC TC514256BZ-60
IC613	8-752-352-30	s IC CXD2705AQ
IC614	8-759-070-11	s IC TC514256BZ-60
IC615	8-759-070-11	s IC TC514256BZ-60
IC616	8-752-352-30	s IC CXD2705AQ
IC617	8-759-070-11	s IC TC514256BZ-60
IC618	8-759-070-11	s IC TC514256BZ-60
IC619	8-752-352-30	s IC CXD2705AQ
IC620	8-759-070-11	s IC TC514256BZ-60
IC621	8-759-070-11	s IC TC514256BZ-60
IC622	8-752-352-30	s IC CXD2705AQ
IC623	8-759-070-11	s IC TC514256BZ-60
IC624	8-759-070-11	s IC TC514256BZ-60
IC625	8-752-352-30	s IC CXD2705AQ
to IC642		
IC701	8-759-926-76	s IC SN74HC540ANS
to IC707		
IC801	8-759-926-77	s IC SN74HC541ANS
IC802	8-759-926-77	s IC SN74HC541ANS
IC803	8-759-926-77	s IC SN74HC541ANS
IC804	8-759-926-77	s IC SN74HC541ANS
IC901	8-759-926-77	s IC SN74HC541ANS
to IC905		
R101	1-249-425-11	s CARBON 4.7K 5% 1/4W
to R107		
R108	1-249-411-11	s CARBON 330 5% 1/4W
R109	1-249-411-11	s CARBON 330 5% 1/4W
R110	1-249-429-11	s CARBON 10K 5% 1/4W

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(IPM-48 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
R111	1-249-429-11	s CARBON 10K 5% 1/4W
R151	1-215-451-00	s METAL 18K 1% 1/6W
R152	1-215-445-00	s METAL 10K 1% 1/6W
R153	1-247-883-00	s CARBON 150K 5% 1/4W
R154	1-249-393-11	s CARBON 10 5% 1/4W
R155	1-249-441-11	s CARBON 100K 5% 1/4W
R156	1-249-429-11	s CARBON 10K 5% 1/4W
R157	1-249-429-11	s CARBON 10K 5% 1/4W
R201	1-249-425-11	s CARBON 4.7K 5% 1/4W
R202	1-249-425-11	s CARBON 4.7K 5% 1/4W
R203	1-249-425-11	s CARBON 4.7K 5% 1/4W
R204	1-249-425-11	s CARBON 4.7K 5% 1/4W
R501	1-249-429-11	s CARBON 10K 5% 1/4W
R701	1-249-429-11	s CARBON 10K 5% 1/4W
R702	1-249-429-11	s CARBON 10K 5% 1/4W
R703	1-249-411-11	s CARBON 330 5% 1/4W
RB101	1-235-194-00	s RESISTOR BLOCK 4.7KX8
RB102	1-235-337-11	s RESISTOR BLOCK 22KX8
RB103	1-235-337-11	s RESISTOR BLOCK 22KX8
RB104	1-236-232-11	s RESISTOR BLOCK 330X8
RB105	1-235-337-11	s RESISTOR BLOCK 22KX8
RB201 to RB207	1-235-194-00	s RESISTOR BLOCK 4.7KX8
RB301	1-235-195-00	s RESISTOR BLOCK 10KX8
RB401 to RB406	1-235-195-00	s RESISTOR BLOCK 10KX8
RB701 to RB705	1-236-232-11	s RESISTOR BLOCK 330X8
RB901 to RB905	1-235-337-11	s RESISTOR BLOCK 22KX8
S101	1-554-937-11	s SWITCH, PUSH
S102	1-570-266-11	s SWITCH, PUSH (1 KEY)
S103	1-570-623-11	s SWITCH, DIP 8-CKT
S701 to S705	1-570-623-11	s SWITCH, DIP 8-CKT
S706	1-570-602-11	s SWITCH, DIP 2-CKT
X101	1-577-258-11	s CRYSTAL, 32MHz
X102	1-577-170-11	s CRYSTAL, 50MHz

MB-480 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8274-619-A	o MOUNTED CIRCUIT BOARD, MB-480
20pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
C1	1-102-959-00	s CERAMIC 22PF 5% 50V
C2	1-102-959-00	s CERAMIC 22PF 5% 50V
C3	1-102-959-00	s CERAMIC 22PF 5% 50V
C4	1-102-959-00	s CERAMIC 22PF 5% 50V
C5	1-102-959-00	s CERAMIC 22PF 5% 50V
CN6	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN7	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN8	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN9	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN1A	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN1B	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN10	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN11	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN12	1-506-474-11	s CONNECTOR 9P, MALE
CN13	1-506-599-11	o PIN, CONNECTOR (B10P-VH) 10P
CN14	1-564-241-00	o CONNECTOR, 4P, MALE
CN2A	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN2B	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN3A	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN3B	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN4A	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN4B	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN5A	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
CN5B	1-563-337-11	s CONNECTOR, DIN 96P, FEMALE
RB1	1-235-334-11	s RESISTOR BLOCK 3.3KX8
RB2	1-235-333-11	s RESISTOR BLOCK 1.5KX8

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

MIX-16 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-633-A	o MOUNTED CIRCUIT BOARD, MIX-16
2pcs	2-146-577-01	o LEVER (1), PC BOARD
2pcs	3-174-923-01	o LEVER (2), PC BOARD
4pcs	7-626-320-11	s PIN, SPRING 3X8
4pcs	7-685-546-14	s SCREW +BTP 3X8 TYPE2 N-S
7pcs	7-682-903-01	s SCREW +PWH 3X5
4pcs	7-682-547-04	s SCREW +B 3X6
C1	1-126-163-11	s ELECT 4.7uF 20% 50V
C2	1-126-163-11	s ELECT 4.7uF 20% 50V
C3	1-126-163-11	s ELECT 4.7uF 20% 50V
C4	1-126-163-11	s ELECT 4.7uF 20% 50V
C5	1-163-038-00	s CAP, CHIP 0.1uF 25V
C6	1-126-157-11	s ELECT 10uF 20% 16V
C51	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
C52	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
C100 to C112	1-163-038-00	s CAP, CHIP 0.1uF 25V
C114 to C121	1-163-038-00	s CAP, CHIP 0.1uF 25V
C130	1-163-038-00	s CAP, CHIP 0.1uF 25V
C131	1-126-925-11	s ELECT 470uF 20% 10V
C132	1-126-925-11	s ELECT 470uF 20% 10V
C133	1-163-038-00	s CAP, CHIP 0.1uF 25V
C151 to C157	1-163-038-00	s CAP, CHIP 0.1uF 25V
C201 to C223	1-163-038-00	s CAP, CHIP 0.1uF 25V
C301 to C324	1-163-038-00	s CAP, CHIP 0.1uF 25V
C401 to C436	1-163-038-00	s CAP, CHIP 0.1uF 25V
C438	1-163-038-00	s CAP, CHIP 0.1uF 25V
C439	1-163-038-00	s CAP, CHIP 0.1uF 25V
C440	1-163-038-00	s CAP, CHIP 0.1uF 25V
C501	1-163-038-00	s CAP, CHIP 0.1uF 25V
C502	1-163-038-00	s CAP, CHIP 0.1uF 25V
C503	1-163-038-00	s CAP, CHIP 0.1uF 25V
C504	1-163-038-00	s CAP, CHIP 0.1uF 25V
C506 to C516	1-163-038-00	s CAP, CHIP 0.1uF 25V
C551 to C558	1-163-038-00	s CAP, CHIP 0.1uF 25V
C601 to C608	1-163-038-00	s CAP, CHIP 0.1uF 25V
C701 to C714	1-163-038-00	s CAP, CHIP 0.1uF 25V
C751 to C763	1-163-038-00	s CAP, CHIP 0.1uF 25V
C801 to C805	1-163-038-00	s CAP, CHIP 0.1uF 25V
C851	1-163-038-00	s CAP, CHIP 0.1uF 25V
C852	1-163-038-00	s CAP, CHIP 0.1uF 25V
C853	1-163-038-00	s CAP, CHIP 0.1uF 25V
C854	1-163-038-00	s CAP, CHIP 0.1uF 25V

(MIX-16 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
C901 to C911	1-163-038-00	s CAP, CHIP 0.1uF 25V
CN1	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN2	1-506-748-11	s CONNECTOR, DIN 96P, MALE
CN3	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN4	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CNI100	1-526-816-21	s SOCKET, IC (DP) 24P
CNI102	1-526-656-00	s SOCKET, IC (DP) 20P
CNI116	1-526-656-00	s SOCKET, IC (DP) 20P
CNI117	1-526-816-21	s SOCKET, IC (DP) 24P
CNI152	1-526-662-21	o SOCKET, IC (DP) 40P
CNI153	1-526-662-21	o SOCKET, IC (DP) 40P
CNI309	1-526-816-21	s SOCKET, IC (DP) 24P
CNI401	1-526-816-21	s SOCKET, IC (DP) 24P
COR101	1-564-947-21	o PIN, SHORTING, 2P
COR102	1-564-947-21	o PIN, SHORTING, 2P
COR151	1-564-947-21	o PIN, SHORTING, 2P
COR152	1-564-947-21	o PIN, SHORTING, 2P
COR153	1-564-947-21	o PIN, SHORTING, 2P
COR154	1-564-947-21	o PIN, SHORTING, 2P
D101	8-719-812-31	s LED TLR123, RED
D102	8-719-812-31	s LED TLR123, RED
D103 to D110	8-719-812-43	s LED TLG124A, GRN
D151	8-719-987-87	s DIODE ERA85-009
D401 to D408	8-719-812-43	s LED TLG124A, GRN
D901 to D925	8-719-812-43	s LED TLG124A, GRN
D926	8-719-812-42	s DIODE TLY124
FL101	1-236-071-11	s ENCAPSULATED COMPONENT, LC
IC100	8-759-262-12	o IC 22V10B-IODEC8-V1.0
IC101	8-759-194-86	s IC MC68302FC16C
IC102	8-759-262-23	o IC 16V8B-OPDEC8-V1.0
IC103	8-759-972-58	s IC MAX238CNG
IC104	8-759-989-91	s IC TL7705ACPS
IC105	8-759-985-45	s IC 74AC175SJ
IC106	8-759-926-23	s IC SN74HC163ANS
IC107	8-759-926-23	s IC SN74HC163ANS
IC108	8-759-926-77	s IC SN74HC541ANS
IC109	8-759-926-54	s IC SN74HC259ANS
IC110	8-759-033-10	s IC MC74F32M
IC111	8-759-033-02	s IC MC74F04M
IC112	8-759-239-92	s IC TC74HC07AF
IC114	8-759-925-80	s IC SN74HC14ANS
IC115	8-759-929-73	s IC SN74LS00NS
IC116	8-759-262-22	o IC 16V8B-MEMDEC8-V1.0
IC117	8-759-262-11	o IC 22V10B-CPUDEC8-V1.0
IC118	8-759-985-78	s IC 74AC541SJ
IC119	8-759-985-78	s IC 74AC541SJ
IC120	8-759-985-78	s IC 74AC541SJ
IC121	8-759-985-78	s IC 74AC541SJ
IC151	8-759-982-65	s IC ICL7665SCPA
IC152	8-759-262-09	o IC 27C210A-DEBUG-V1.00

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(MIX-16 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
IC154	8-752-365-27 s	IC CXK581000AM-70LL-TL
IC155	8-752-365-27 s	IC CXK581000AM-70LL-TL
IC156	8-752-365-27 s	IC CXK581000AM-70LL-TL
IC157	8-752-365-27 s	IC CXK581000AM-70LL-TL
IC201	8-759-985-78 s	IC 74AC541SJ
IC202	8-759-926-49 s	IC SN74HC245NS
IC203	8-759-926-49 s	IC SN74HC245NS
IC204	8-759-926-77 s	IC SN74HC541ANS
to IC208		
IC209	8-759-973-43 s	IC MB8421-90LPFQ
IC210	8-759-973-43 s	IC MB8421-90LPFQ
IC211	8-759-985-78 s	IC 74AC541SJ
to IC215		
IC216	8-759-033-44 s	IC MC74F245M
IC217	8-759-033-44 s	IC MC74F245M
IC218	8-759-993-54 s	IC 74F541SJ
to IC223		
IC301	8-759-925-85 s	IC SN74HC32ANS
IC302	8-759-925-76 s	IC SN74HC08ANS
IC303	8-759-925-82 s	IC SN74HC21ANS
IC304	8-759-926-23 s	IC SN74HC163ANS
IC305	8-759-926-23 s	IC SN74HC163ANS
IC306	8-759-925-74 s	IC TC74HC04ANS
IC307	8-759-926-82 s	IC SN74HC574ANS
IC308	8-759-994-41 s	IC CXD8025Q
IC309	8-759-262-24 o	IC 22V10B-DSPDEC8-V1.0
IC310	8-759-985-78 s	IC 74AC541SJ
IC311	8-759-985-78 s	IC 74AC541SJ
IC312	8-759-985-78 s	IC 74AC541SJ
IC313	8-759-926-11 s	IC SN74HC138ANS
to IC318		
IC319	8-759-925-90 s	IC SN74HC74ANS
to IC323		
IC324	8-759-926-77 s	IC SN74HC541ANS
IC401	8-759-262-14 o	IC 22V10B-GPDEC8-V1.0
IC402	8-759-926-11 s	IC SN74HC138ANS
IC403	8-759-926-11 s	IC SN74HC138ANS
IC404	8-759-926-82 s	IC SN74HC574ANS
IC405	8-759-926-82 s	IC SN74HC574ANS
IC406	8-759-926-82 s	IC SN74HC574ANS
IC407	8-759-926-18 s	IC SN74HC157ANS
IC408	8-759-926-18 s	IC SN74HC157ANS
IC409	8-759-926-82 s	IC SN74HC574ANS
IC410	8-759-926-82 s	IC SN74HC574ANS
IC411	8-759-926-18 s	IC SN74HC157ANS
IC412	8-759-926-18 s	IC SN74HC157ANS
IC413	8-759-926-82 s	IC SN74HC574ANS
IC414	8-759-926-82 s	IC SN74HC574ANS
IC415	8-759-926-18 s	IC SN74HC157ANS
IC416	8-759-926-18 s	IC SN74HC157ANS
IC417	8-759-926-82 s	IC SN74HC574ANS
IC418	8-759-926-82 s	IC SN74HC574ANS
IC419	8-759-926-18 s	IC SN74HC157ANS
IC420	8-759-926-18 s	IC SN74HC157ANS
IC421	8-759-926-82 s	IC SN74HC574ANS
IC422	8-759-926-82 s	IC SN74HC574ANS
IC423	8-759-926-18 s	IC SN74HC157ANS
IC424	8-759-926-18 s	IC SN74HC157ANS

(MIX-16 BOARD/PROCESSOR)

Ref. No. or Q'ty	Part No.	SP Description
IC425	8-759-926-82 s	IC SN74HC574ANS
IC426	8-759-926-82 s	IC SN74HC574ANS
IC427	8-759-926-18 s	IC SN74HC157ANS
IC428	8-759-926-18 s	IC SN74HC157ANS
IC429	8-759-926-82 s	IC SN74HC574ANS
IC430	8-759-926-82 s	IC SN74HC574ANS
IC431	8-759-926-18 s	IC SN74HC157ANS
IC432	8-759-926-18 s	IC SN74HC157ANS
IC433	8-759-926-82 s	IC SN74HC574ANS
IC434	8-759-926-82 s	IC SN74HC574ANS
IC435	8-759-926-18 s	IC SN74HC157ANS
IC436	8-759-926-18 s	IC SN74HC157ANS
IC438	8-759-925-90 s	IC SN74HC74ANS
IC439	8-759-926-11 s	IC SN74HC138ANS
IC440	8-759-926-82 s	IC SN74HC574ANS
IC501	8-759-926-77 s	IC SN74HC541ANS
IC502	8-759-926-77 s	IC SN74HC541ANS
IC503	8-759-926-77 s	IC SN74HC541ANS
IC504	8-759-926-77 s	IC SN74HC541ANS
IC506	8-759-977-89 s	IC CXD8014G
IC507	8-752-352-30 s	IC CXD2705AQ
to IC514		
IC515	8-759-926-77 s	IC SN74HC541ANS
IC516	8-759-926-77 s	IC SN74HC541ANS
IC551	8-752-352-30 s	IC CXD2705AQ
to IC558		
IC601	8-759-985-18 s	IC 74AC08SJ
IC602	8-759-043-67 s	IC CXD8307Q
IC603	8-752-352-30 s	IC CXD2705AQ
IC604	8-752-343-18 s	IC CXD2704Q
IC605	8-752-343-18 s	IC CXD2704Q
IC606	8-759-043-67 s	IC CXD8307Q
IC607	8-752-343-18 s	IC CXD2704Q
IC608	8-752-343-18 s	IC CXD2704Q
IC701	8-759-985-18 s	IC 74AC08SJ
to IC709		
IC710	8-759-043-67 s	IC CXD8307Q
IC711	8-752-352-30 s	IC CXD2705AQ
IC712	8-752-352-30 s	IC CXD2705AQ
IC713	8-752-343-18 s	IC CXD2704Q
IC714	8-752-343-18 s	IC CXD2704Q
IC751	8-759-985-18 s	IC 74AC08SJ
to IC758		
IC759	8-759-043-67 s	IC CXD8307Q
IC760	8-752-352-30 s	IC CXD2705AQ
IC761	8-752-352-30 s	IC CXD2705AQ
IC762	8-752-343-18 s	IC CXD2704Q
IC763	8-752-343-18 s	IC CXD2704Q
IC801	8-752-343-18 s	IC CXD2704Q
IC802	8-752-352-30 s	IC CXD2705AQ
IC803	8-752-352-30 s	IC CXD2705AQ
IC804	8-759-169-84 s	IC CXD8833Q
IC805	8-759-169-84 s	IC CXD8833Q
IC851	8-752-352-30 s	IC CXD2705AQ
IC852	8-752-352-30 s	IC CXD2705AQ
IC853	8-759-169-84 s	IC CXD8833Q
IC854	8-759-169-84 s	IC CXD8833Q
IC901	8-759-926-76 s	IC SN74HC540ANS

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(MIX-16 BOARD/PROCESSOR)

Ref. No.
or Q'ty Part No. SP Description

IC902 8-759-926-76 s IC SN74HC540ANS
IC903 8-759-926-76 s IC SN74HC540ANS
IC904 8-759-926-76 s IC SN74HC540ANS
IC905 8-759-926-77 s IC SN74HC541ANS
to IC911

R1 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
to R5

R6 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W

R7 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
R8 1-216-037-00 s METAL, CHIP 330 5% 1/10W
R9 1-216-037-00 s METAL, CHIP 330 5% 1/10W
R10 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R11 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R12 1-216-025-00 s METAL, CHIP 100 5% 1/10W
R13 1-216-025-00 s METAL, CHIP 100 5% 1/10W
R14 1-216-025-00 s METAL, CHIP 100 5% 1/10W
R15 1-216-025-00 s METAL, CHIP 100 5% 1/10W
R51 1-215-451-00 s METAL 18K 1% 1/6W

R52 1-215-445-00 s METAL 10K 1% 1/6W
R53 1-247-883-00 s CARBON 150K 5% 1/4W
R54 1-249-393-11 s CARBON 10 5% 1/4W
R55 1-249-441-11 s CARBON 100K 5% 1/4W
R56 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R57 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R201 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
R202 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
R203 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
R204 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W

RB101 1-235-194-00 s RESISTOR BLOCK 4.7KX8
RB102 1-235-337-11 s RESISTOR BLOCK 22KX8
RB103 1-235-337-11 s RESISTOR BLOCK 22KX8
RB104 1-235-332-11 s RESISTOR BLOCK 470X8
RB105 1-235-337-11 s RESISTOR BLOCK 22KX8

RB201 1-235-195-00 s RESISTOR BLOCK 10KX8
to RB207

RB301 1-235-195-00 s RESISTOR BLOCK 10KX8
RB401 1-235-332-11 s RESISTOR BLOCK 470X8
RB501 1-235-195-00 s RESISTOR BLOCK 10KX8
to RB505

RB506 1-231-533-00 s RESISTOR BLOCK 10Kx4
RB901 1-235-337-11 s RESISTOR BLOCK 22KX8
RB902 1-235-337-11 s RESISTOR BLOCK 22KX8
RB903 1-235-332-11 s RESISTOR BLOCK 470X8
RB904 1-235-332-11 s RESISTOR BLOCK 470X8

RB905 1-235-332-11 s RESISTOR BLOCK 470X8
RB906 1-235-332-11 s RESISTOR BLOCK 470X8
RB907 1-235-337-11 s RESISTOR BLOCK 22KX8
RB908 1-235-337-11 s RESISTOR BLOCK 22KX8

S101 1-554-937-11 s SWITCH, PUSH
S102 1-570-266-11 s SWITCH, PUSH (1 KEY)
S103 1-570-623-11 s SWITCH, DIP 8-CKT
S901 1-570-623-11 s SWITCH, DIP 8-CKT
S902 1-570-623-11 s SWITCH, DIP 8-CKT

S903 1-570-623-11 s SWITCH, DIP 8-CKT
S904 1-570-623-11 s SWITCH, DIP 8-CKT

X1 1-577-258-11 s CRYSTAL, 32MHz

(MIX-16 BOARD/PROCESSOR)

Ref. No.
or Q'ty Part No. SP Description

X2 1-577-170-11 s CRYSTAL, 50MHz

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

PS-314 BOARD/PROCESSOR

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-641-A	o MOUNTED CIRCUIT BOARD, PS-314
1pc	4-030-359-01	o HEAT SINK, H. PIN
1pc	7-682-548-04	s SCREW +B 3X8
C1	1-124-584-00	s ELECT 100uF 20% 10V
C2	1-101-004-00	s CERAMIC 0.01uF 50V
C3	1-124-584-00	s ELECT 100uF 20% 10V
C4	1-101-004-00	s CERAMIC 0.01uF 50V
C5	1-124-584-00	s ELECT 100uF 20% 10V
C6	1-101-004-00	s CERAMIC 0.01uF 50V
C11	1-124-122-11	s ELECT 100uF 20% 50V
C12	1-136-153-00	s FILM 0.01uF 5% 50V
C13	1-124-122-11	s ELECT 100uF 20% 50V
C14	1-136-153-00	s FILM 0.01uF 5% 50V
C15	1-124-122-11	s ELECT 100uF 20% 50V
C16	1-136-153-00	s FILM 0.01uF 5% 50V
C21	1-124-122-11	s ELECT 100uF 20% 50V
C22	1-136-153-00	s FILM 0.01uF 5% 50V
C23	1-124-122-11	s ELECT 100uF 20% 50V
C24	1-136-153-00	s FILM 0.01uF 5% 50V
C25	1-124-122-11	s ELECT 100uF 20% 50V
C26	1-136-153-00	s FILM 0.01uF 5% 50V
CN1	1-564-943-11	o CONNECTOR, 12P, MALE
CN2	1-564-241-00	o CONNECTOR, 4P, MALE
CN3	1-506-599-11	o PIN, CONNECTOR (B10P-VH) 10P
CN4	1-564-943-11	o CONNECTOR, 12P, MALE
CN5	1-506-474-11	s CONNECTOR 9P, MALE
CN6	1-564-002-11	s PIN, CONNECTOR 3P
CN7	1-564-002-11	s PIN, CONNECTOR 3P
CN8	1-564-002-11	s PIN, CONNECTOR 3P
CN9	1-564-002-11	s PIN, CONNECTOR 3P
D1	8-719-033-57	s DIODE ESAE83-006
D2	8-719-500-30	s DIODE S10SC4M
D3	8-719-500-31	s DIODE S10SC4MR
D4	8-719-109-93	s DIODE RD6.2ES-B2
FL1	1-236-071-11	s ENCAPSULATED COMPONENT, LC
IC1	8-759-917-05	s IC SN74HC541AN
IC2	8-759-007-09	s IC MC74HC540N
PH1	8-719-946-27	s IC PC837
PH2	8-719-946-27	s IC PC837
R3	1-249-413-11	s CARBON 470 5% 1/4W
R4	1-249-413-11	s CARBON 470 5% 1/4W
R11	1-249-423-11	s CARBON 3.3K 5% 1/4W
R12	1-249-423-11	s CARBON 3.3K 5% 1/4W
R13	1-249-418-11	s CARBON 1.2K 5% 1/4W
R14	1-249-418-11	s CARBON 1.2K 5% 1/4W
R21	1-249-423-11	s CARBON 3.3K 5% 1/4W
R22	1-249-423-11	s CARBON 3.3K 5% 1/4W
R23	1-249-418-11	s CARBON 1.2K 5% 1/4W
R24	1-249-418-11	s CARBON 1.2K 5% 1/4W
R40 to R45	1-260-087-11	s CARBON 100 5% 1/2W
RB1	1-235-192-00	s RESISTOR BLOCK 1KX8

DMBK-4001 (OPTION)

CN-842 BOARD/DMBK-4001

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-860-A	o MOUNTED CIRCUIT BOARD, CN-842
14pcs	7-682-547-04	s SCREW +B 3X6
3pcs	7-682-903-01	s SCREW +PWH 3X5
CN1 to CN6	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN7	1-563-771-11	s CONNECTOR, D-SUB 15P, FEMALE
CN805	1-695-254-11	o HEADER (RIGHT ANGLE TYPE) 50P
FL1 to FL36	1-236-163-11	s ENCAPSULATED COMPONENT

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

CPU-146 BOARD/DMBK-4001

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-627-A	o MOUNTED CIRCUIT BOARD, CPU-146
C101	1-126-404-11	s ELECT 4.7uF 20% 50V
C102	1-126-404-11	s ELECT 4.7uF 20% 50V
C103	1-126-404-11	s ELECT 4.7uF 20% 50V
C104	1-126-404-11	s ELECT 4.7uF 20% 50V
C105	1-163-038-00	s CAP, CHIP 0.1uF 25V
C106	1-126-405-11	s ELECT, CHIP 10uF 20% 50V
C107 to C123	1-163-038-00	s CAP, CHIP 0.1uF 25V
C201 to C206	1-163-038-00	s CAP, CHIP 0.1uF 25V
C207	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
C208	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
C209	1-163-038-00	s CAP, CHIP 0.1uF 25V
C301 to C315	1-163-038-00	s CAP, CHIP 0.1uF 25V
C401 to C406	1-163-038-00	s CAP, CHIP 0.1uF 25V
C501 to C518	1-163-038-00	s CAP, CHIP 0.1uF 25V
C601 to C613	1-163-038-00	s CAP, CHIP 0.1uF 25V
C701 to C709	1-163-038-00	s CAP, CHIP 0.1uF 25V
C801	1-128-393-11	s ELECT 100uF 20% 10V
C802	1-163-038-00	s CAP, CHIP 0.1uF 25V
C803	1-126-928-11	s ELECT 3300uF 20% 10V
C804	1-163-038-00	s CAP, CHIP 0.1uF 25V
C805	1-128-393-11	s ELECT 100uF 20% 10V
C806	1-163-038-00	s CAP, CHIP 0.1uF 25V
CN1	1-563-890-21	s CONNECTOR, D-SUB 9P, FEMALE
CN2	1-563-890-21	s CONNECTOR, D-SUB 9P, FEMALE
CN800	1-564-241-00	o CONNECTOR, 4P, MALE
CN801	1-695-249-11	o HEADER (STRAIGHT) 50P
CN802	1-695-249-11	o HEADER (STRAIGHT) 50P
CN803	1-580-194-21	o CONNECTOR, PC BOARD (PLUG)100P
CNI112	1-526-816-21	s SOCKET, IC (DP) 24P
CNI113	1-526-816-21	s SOCKET, IC (DP) 24P
CNI114	1-526-656-00	s SOCKET, IC (DP) 20P
CNI201	1-526-662-21	o SOCKET, IC (DP) 40P
CNI202	1-526-659-00	o SOCKET, IC 28P
D101	8-719-812-31	s LED TLR123, RED
D102	8-719-812-31	s LED TLR123, RED
D103 to D108	8-719-812-43	s LED TLG124A, GRN
D201	8-719-987-87	s DIODE ERA85-009
D301 to D308	8-719-812-43	s LED TLG124A, GRN
FB401 to FB431	1-543-256-11	s BEAD, FERRITE
FB501 to FB536	1-543-256-11	s BEAD, FERRITE

(CPU-146 BOARD/DMBK-4001)

Ref. No. or Q'ty	Part No.	SP Description
IC101	8-759-052-57	s IC TMP68305F-16
IC102	8-759-521-15	s IC MAX232CWE
IC103	8-759-989-91	s IC TL7705ACPS
IC104	8-759-239-92	s IC TC74HC07AF
IC105	8-759-925-76	s IC SN74HC08ANS
IC106	8-759-925-80	s IC SN74HC14ANS
IC107	8-759-926-07	s IC SN74HC132ANS
IC108	8-759-244-12	s IC TC74AC175F
IC109	8-759-926-23	s IC SN74HC163ANS
IC110	8-759-989-03	s IC 74F32SJ
IC111	8-759-948-01	s IC 74F04SJ
IC112	8-759-260-83	o IC 22V10B-146IC112-V1.0
IC113	8-759-260-85	o IC 22V10B-146IC113-V1.0
IC114	8-759-260-86	o IC 16V8B-146IC114-V1.0
IC115	8-759-926-76	s IC SN74HC540ANS
IC116	8-759-926-54	s IC SN74HC259ANS
IC201	8-759-260-84	o IC 27C4002-REMCON-V1.00
IC202	8-759-097-08	s IC DS1643-150
IC207	8-759-510-18	s IC ICL7665ACSA
IC301	8-759-993-54	s IC 74F541SJ
IC302	8-759-993-54	s IC 74F541SJ
IC303	8-759-992-69	s IC 74F245SJ
IC304	8-759-992-69	s IC 74F245SJ
IC305	8-759-993-54	s IC 74F541SJ
IC306	8-759-993-54	s IC 74F541SJ
IC307	8-759-033-09	s IC MC74F21M
IC308	8-759-926-11	s IC SN74HC138ANS
IC309	8-759-926-11	s IC SN74HC138ANS
IC310	8-759-926-11	s IC SN74HC138ANS
IC311	8-759-926-11	s IC SN74HC138ANS
IC312	8-759-926-76	s IC SN74HC540ANS
IC313	8-759-926-69	s IC SN74HC377ANS
IC314	8-759-926-76	s IC SN74HC540ANS
IC315	8-759-926-69	s IC SN74HC377ANS
IC401	8-759-973-43	s IC MB8421-90LPFQ
IC402	8-759-926-62	s IC SN74HC365ANS
IC403	8-759-926-49	s IC SN74HC245NS
IC404	8-759-926-77	s IC SN74HC541ANS
IC405	8-759-926-77	s IC SN74HC541ANS
IC406	8-759-926-77	s IC SN74HC541ANS
IC501	8-759-086-05	s IC Z8523010VSC
IC502	8-759-061-67	s IC MC34051M
IC503	8-759-086-05	s IC Z8523010VSC
IC504	8-759-061-67	s IC MC34051M
IC505	8-759-086-05	s IC Z8523010VSC
IC506	8-759-061-67	s IC MC34051M
IC507	8-759-926-76	s IC SN74HC540ANS
IC508	8-759-926-69	s IC SN74HC377ANS
IC509	8-759-051-53	s IC TD62381F
IC510	8-759-244-12	s IC TC74AC175F
IC601	8-759-234-67	s IC TMP82C79M-2
IC602	8-759-051-53	s IC TD62381F
IC603	8-759-926-11	s IC SN74HC138ANS
IC604	8-759-232-86	s IC TC74HC238AF
IC605	8-759-098-11	s IC TD62783F
IC606	8-759-232-86	s IC TC74HC238AF
IC607	8-759-098-11	s IC TD62783F
IC608	8-759-234-67	s IC TMP82C79M-2

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(CPU-146 BOARD/DMBK-4001)

Ref. No. or Q'ty	Part No.	SP Description
IC609	8-759-051-53	s IC TD62381F
IC610	8-759-232-86	s IC TC74HC238AF
IC611	8-759-098-11	s IC TD62783F
IC612	8-759-232-86	s IC TC74HC238AF
IC613	8-759-098-11	s IC TD62783F
IC701	8-759-083-69	s IC UPD4704G
IC702	8-759-149-10	s IC UPD4702G
IC703	8-759-925-85	s IC SN74HC32ANS
IC704	8-759-926-49	s IC SN74HC245NS
IC705	8-759-926-77	s IC SN74HC541ANS
IC706	8-759-926-77	s IC SN74HC541ANS
IC707	8-759-926-11	s IC SN74HC138ANS
IC708	8-759-925-90	s IC SN74HC74ANS
IC709	8-759-076-03	s IC MB88346BPF
L801	1-403-580-11	s COIL, CHOKE
R101 to R108	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R109	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R110	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R111	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R112	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R113	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R114	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R115	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R116	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R117	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R118	1-220-258-11	s RES, CHIP 100 5% 1/4W
R119	1-220-258-11	s RES, CHIP 100 5% 1/4W
R120	1-220-258-11	s RES, CHIP 100 5% 1/4W
R121	1-220-258-11	s RES, CHIP 100 5% 1/4W
R122	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R123	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R124	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R125	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R126	1-216-041-00	s METAL, CHIP 470 5% 1/10W
to R131		
R132 to R136	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R201	1-208-812-11	s RES, CHIP 18K 0.50% 1/10W
R202	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R203	1-216-101-00	s METAL, CHIP 150K 5% 1/10W
R204	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R205	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R301 to R308	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R401	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R402	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R403	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
to R407		
R501	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R502	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R503	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R504	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R505	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R506	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R507	1-216-073-00	s METAL, CHIP 10K 5% 1/10W

(CPU-146 BOARD/DMBK-4001)

Ref. No. or Q'ty	Part No.	SP Description
R508	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R509	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R510	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R511	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R512	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R513	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R514	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R515	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R516	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R517 to R526	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R527	1-220-258-11	s RES, CHIP 100 5% 1/4W
R601 to R616	1-220-234-11	s RES, CHIP 4.7 10% 1/4W
RB101	1-239-307-11	s RESISTOR ARRAY, CHIP 22K
RB301 to RB305	1-239-307-11	s RESISTOR ARRAY, CHIP 22K
RB401	1-239-307-11	s RESISTOR ARRAY, CHIP 22K
RB402	1-239-307-11	s RESISTOR ARRAY, CHIP 22K
RB403	1-239-307-11	s RESISTOR ARRAY, CHIP 22K
RB404	1-239-307-11	s RESISTOR ARRAY, CHIP 22K
RB501	1-239-307-11	s RESISTOR ARRAY, CHIP 22K
RB701	1-239-307-11	s RESISTOR ARRAY, CHIP 22K
RB702	1-239-307-11	s RESISTOR ARRAY, CHIP 22K
RB703	1-239-307-11	s RESISTOR ARRAY, CHIP 22K
S101	1-554-937-11	s SWITCH, PUSH
S102	1-570-266-11	s SWITCH, PUSH (1 KEY)
S103	1-570-623-11	s SWITCH, DIP 8-CKT
S601	1-570-623-11	s SWITCH, DIP 8-CKT
TP103 to TP118	1-535-877-22	s CHIP, CHECKER
X101	1-577-258-11	s CRYSTAL, 32MHZ
X501	1-577-541-11	s OSCILLATOR, CRYSTAL (IC TYPE)

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

KY-302 BOARD/DMBK-4001

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-628-A	o MOUNTED CIRCUIT BOARD, KY-302
23pcs	1-692-757-11	s SWITCH, TACTILE PUSH
7pcs	1-692-763-11	s SWITCH, TACTILE PUSH
1pc	3-708-603-11	o KEY TOP (1)
1pc	3-708-603-21	o KEY TOP (1)
1pc	3-708-603-31	o KEY TOP (1)
1pc	3-708-603-41	o KEY TOP (1)
1pc	3-708-603-51	o KEY TOP (1)
1pc	3-708-603-61	o KEY TOP (1)
1pc	3-708-603-71	o KEY TOP (1)
1pc	3-708-603-81	o KEY TOP (1)
1pc	3-708-603-91	o KEY TOP (1)
1pc	3-708-604-01	o KEY TOP (1)
1pc	3-708-783-11	o KEY TOP (1)
1pc	3-708-848-01	s KEY TOP (LED)
1pc	3-708-848-11	s KEY TOP (LED)
1pc	3-708-848-21	s KEY TOP (LED)
1pc	3-708-848-31	s KEY TOP (LED)
1pc	3-708-848-41	s KEY TOP (LED)
1pc	3-708-848-51	s KEY TOP (LED)
1pc	3-708-848-61	s KEY TOP (LED)
1pc	3-708-848-71	s KEY TOP (LED)
1pc	3-708-848-81	s KEY TOP (LED)
1pc	3-708-849-01	s KEY TOP (LED)
1pc	3-708-849-11	s KEY TOP (LED)
1pc	3-708-849-21	s KEY TOP (LED)
1pc	3-708-849-31	s KEY TOP (LED)
1pc	3-708-849-41	s KEY TOP (LED)
1pc	3-708-849-51	s KEY TOP (LED)
1pc	3-708-849-61	s KEY TOP (LED)
1pc	3-708-849-71	s KEY TOP (LED)
1pc	3-708-849-81	s KEY TOP (LED)
1pc	3-708-850-01	s KEY TOP (LED)
1pc	3-708-850-11	s KEY TOP (LED)
1pc	3-708-850-21	s KEY TOP (LED)
1pc	3-708-850-31	s KEY TOP
1pc	3-708-850-41	s KEY TOP
1pc	3-708-851-01	s KEY TOP (LED)
1pc	3-708-851-11	s KEY TOP (LED)
1pc	3-708-851-21	s KEY TOP
1pc	1-467-667-11	s DISPLAY UNIT, LCD (LM20X21A)
8pcs	1-568-616-11	o SOCKET, SIL 6P
8pcs	1-526-654-21	o SOCKET, IC (DP) 16P
48pcs	3-176-197-01	o HOLDER, LED
3pcs	4-937-336-01	o HOLDER, LED
7pcs	7-682-547-04	s SCREW +B 3X6
C101	1-163-038-00	s CAP, CHIP 0.1uF 25V
CN804	1-750-896-21	o CONNECTOR 100P
CN806	1-564-862-11	o PIN, CONNECTOR (STRAIGHT) 20P
CN807	1-564-355-00	o PIN HEADER 3P
CN808	1-506-469-11	s CONNECTOR 4P, MALE
D101 to D120	8-719-404-35	s DIODE MA141WK
D201	8-719-043-25	s DIODE GL3E306
D202	8-719-043-25	s DIODE GL3E306
D203	8-719-043-22	s DIODE GL7E202
D204	8-719-043-22	s DIODE GL7E202

(KY-302 BOARD/DMBK-4001)

Ref. No. or Q'ty	Part No.	SP Description
D205	8-719-043-22	s DIODE GL7E202
D206	8-719-043-22	s DIODE GL7E202
D301	8-719-901-64	s LED, LT-9200D RED
D302	8-719-901-66	s DIODE LT-9200N
D303	8-719-901-65	s LED, LT-9200H YELLOW
D304	8-719-901-64	s LED, LT-9200D RED
D305	8-719-901-64	s LED, LT-9200D RED
D306	8-719-901-66	s DIODE LT-9200N
D307	8-719-901-65	s LED, LT-9200H YELLOW
D308	8-719-901-64	s LED, LT-9200D RED
D309	8-719-901-64	s LED, LT-9200D RED
D310	8-719-901-66	s DIODE LT-9200N
D311	8-719-901-65	s LED, LT-9200H YELLOW
D312	8-719-901-64	s LED, LT-9200D RED
D313	8-719-901-64	s LED, LT-9200D RED
D314	8-719-901-66	s DIODE LT-9200N
D315	8-719-901-65	s LED, LT-9200H YELLOW
D316	8-719-901-64	s LED, LT-9200D RED
D317	8-719-901-64	s LED, LT-9200D RED
D318	8-719-901-66	s DIODE LT-9200N
D319	8-719-901-65	s LED, LT-9200H YELLOW
D320	8-719-901-64	s LED, LT-9200D RED
D321	8-719-901-64	s LED, LT-9200D RED
D322	8-719-901-66	s DIODE LT-9200N
D323	8-719-901-65	s LED, LT-9200H YELLOW
D324	8-719-901-64	s LED, LT-9200D RED
D325	8-719-811-44	s DIODE TLG114A
D326	8-719-811-43	s DIODE TLY114A
D327	8-719-811-44	s DIODE TLG114A
S30 to S38	1-692-763-11	s SWITCH, TACTILE PUSH

DMBK-4003 (OPTION)

MT-94 BOARD/DMBK-4003

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-649-774-11	o PRINTED CIRCUIT BOARD, MT-94
2pcs	7-682-548-04	s SCREW +B 3X8
CN1	1-566-318-21	s CONNECTOR, D-SUB 9P, MALE
CN2	1-506-703-11	o POST HEADER, CONNECTOR ILG 4P
CN3	1-506-703-11	o POST HEADER, CONNECTOR ILG 4P
R1	1-215-434-00	s METAL 3.6K 1% 1/6W
R2	1-215-434-00	s METAL 3.6K 1% 1/6W

DMBK-4007 (OPTION)

DP-131 BOARD/DMBK-4007

Ref. No. or Q'ty	Part No.	SP Description
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(For details for DP-131 board, see page 6-53.)

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

DMBK-4010 (OPTION)

IPM-48 BOARD/DMBK-4010

Ref. No.
or Q'ty Part No. SP Description

(For details for IPM-48 board, see page 6-71.)

DMBK-4011 (OPTION)

MIX-16 BOARD/DMBK-4011

Ref. No.
or Q'ty Part No. SP Description

(For details for MIX-16 board, see page 6-74.)

KY-225 BOARD/DMBK-4010

Ref. No.
or Q'ty Part No. SP Description

(For details for KY-225 board, see page 6-34.)

LED-156 BOARD/DMBK-4010

Ref. No.
or Q'ty Part No. SP Description

(For details for LED-156 board, see page 6-34.)

MIX-16 BOARD/DMBK-4010

Ref. No.
or Q'ty Part No. SP Description

(For details for MIX-16 board, see page 6-74.)

SW-604 BOARD/DMBK-4010

Ref. No.
or Q'ty Part No. SP Description

(For details for SW-604 board, see page 6-41.)

SW-605 BOARD/DMBK-4010

Ref. No.
or Q'ty Part No. SP Description

(For details for SW-605 board, see page 6-41.)

NOTE 1: Please see page 6-25 for the parts that are not listed
in the parts list.

DMBK-4012 (OPTION)

AD-100 BOARD/DMBK-4012

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-432-A	o MOUNTED CIRCUIT BOARD, AD-100
1pc	2-280-622-71	o SUPPORT (M3), HEXAGON
1pc	3-183-089-01	o PLATE, SHIELD, PC BOARD
1pc	4-879-917-00	o STAY, PC BOARD
1pc	7-627-556-77	s SCREW,PRECISION +P2.6X6 TYPE 1
1pc	7-682-903-01	s SCREW +PWH 3X5
2pcs	4-879-917-00	o STAY, PC BOARD
3pcs	2-280-622-71	o SUPPORT (M3), HEXAGON
3pcs	7-682-903-01	s SCREW +PWH 3X5
18pcs	7-621-259-35	s SCREW +P 2.6X5
C1	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C2	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C3	1-124-910-11	s ELECT 47uF 20% 50V
C4	1-124-910-11	s ELECT 47uF 20% 50V
C5	1-130-483-00	s MYLAR 0.01uF 5% 50V
to C10		
C11	1-124-915-11	s ELECT 10uF 20% 63V
to C18		
C19	1-130-483-00	s MYLAR 0.01uF 5% 50V
C20	1-130-483-00	s MYLAR 0.01uF 5% 50V
C21	1-130-483-00	s MYLAR 0.01uF 5% 50V
C22	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C23	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C24	1-136-169-00	s MYLAR 0.22uF 5% 50V
C25	1-136-169-00	s MYLAR 0.22uF 5% 50V
C26	1-102-963-00	s CERAMIC 33PF 5% 50V
C27	1-102-963-00	s CERAMIC 33PF 5% 50V
C28	1-102-963-00	s CERAMIC 33PF 5% 50V
C101	1-126-233-11	s ELECT 22uF 20% 50V
C102	1-102-963-00	s CERAMIC 33PF 5% 50V
C103	1-130-483-00	s MYLAR 0.01uF 5% 50V
C104	1-124-910-11	s ELECT 47uF 20% 50V
C106	1-130-479-00	s MYLAR 0.0047uF 5% 50V
C107	1-130-483-00	s MYLAR 0.01uF 5% 50V
C108	1-130-472-00	s MYLAR 0.0012uF 5% 50V
C109	1-130-472-00	s MYLAR 0.0012uF 5% 50V
C110	1-137-505-11	s FILM 220PF 5% 100V
C111	1-130-472-00	s MYLAR 0.0012uF 5% 50V
C112	1-130-472-00	s MYLAR 0.0012uF 5% 50V
C113	1-164-346-11	s CERAMIC 1uF 16V
C114	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C115	1-164-346-11	s CERAMIC 1uF 16V
C116	1-164-346-11	s CERAMIC 1uF 16V
C117	1-164-346-11	s CERAMIC 1uF 16V
C118	1-130-483-00	s MYLAR 0.01uF 5% 50V
C119	1-130-483-00	s MYLAR 0.01uF 5% 50V
C120	1-104-664-11	s ELECT 47uF 20% 25V
C121	1-124-915-11	s ELECT 10uF 20% 63V
C122	1-124-915-11	s ELECT 10uF 20% 63V
C199	1-102-963-00	s CERAMIC 33PF 5% 50V
C201	1-126-233-11	s ELECT 22uF 20% 50V
C202	1-102-963-00	s CERAMIC 33PF 5% 50V
C203	1-130-483-00	s MYLAR 0.01uF 5% 50V
C204	1-124-910-11	s ELECT 47uF 20% 50V
C206	1-130-479-00	s MYLAR 0.0047uF 5% 50V
C207	1-130-483-00	s MYLAR 0.01uF 5% 50V
C208	1-130-472-00	s MYLAR 0.0012uF 5% 50V
C209	1-130-472-00	s MYLAR 0.0012uF 5% 50V

NOTE 1:Please see page 6-25 for the parts that are not listed in the parts list.

(AD-100 BOARD/DMBK-4012)

Ref. No. or Q'ty	Part No.	SP Description
C210	1-137-505-11	s FILM 220PF 5% 100V
C211	1-130-472-00	s MYLAR 0.0012uF 5% 50V
C212	1-130-472-00	s MYLAR 0.0012uF 5% 50V
C213	1-164-346-11	s CERAMIC 1uF 16V
C214	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C215	1-164-346-11	s CERAMIC 1uF 16V
C216	1-164-346-11	s CERAMIC 1uF 16V
C217	1-164-346-11	s CERAMIC 1uF 16V
C218	1-130-483-00	s MYLAR 0.01uF 5% 50V
C219	1-130-483-00	s MYLAR 0.01uF 5% 50V
C220	1-104-664-11	s ELECT 47uF 20% 25V
C299	1-102-963-00	s CERAMIC 33PF 5% 50V
C301	1-124-916-11	s ELECT 22uF 20% 63V
C302	1-124-916-11	s ELECT 22uF 20% 63V
C303	1-126-233-11	s ELECT 22uF 20% 50V
C304	1-130-479-00	s MYLAR 0.0047uF 5% 50V
C305	1-102-973-00	s CERAMIC 100PF 5% 50V
C306	1-102-973-00	s CERAMIC 100PF 5% 50V
C307	1-126-768-11	s ELECT 220uF 20% 16V
C308	1-124-910-11	s ELECT 47uF 20% 50V
C309	1-102-963-00	s CERAMIC 33PF 5% 50V
C310	1-130-483-00	s MYLAR 0.01uF 5% 50V
C311	1-130-483-00	s MYLAR 0.01uF 5% 50V
C312	1-124-910-11	s ELECT 47uF 20% 50V
C313	1-124-910-11	s ELECT 47uF 20% 50V
C314	1-102-963-00	s CERAMIC 33PF 5% 50V
C315	1-124-910-11	s ELECT 47uF 20% 50V
C316	1-124-910-11	s ELECT 47uF 20% 50V
C317	1-102-963-00	s CERAMIC 33PF 5% 50V
C318	1-130-483-00	s MYLAR 0.01uF 5% 50V
C319	1-130-483-00	s MYLAR 0.01uF 5% 50V
C320	1-124-910-11	s ELECT 47uF 20% 50V
C321	1-124-910-11	s ELECT 47uF 20% 50V
C322	1-126-025-11	s ELECT 330uF 20% 25V
C323	1-126-025-11	s ELECT 330uF 20% 25V
C324	1-126-233-11	s ELECT 22uF 20% 50V
C325	1-126-233-11	s ELECT 22uF 20% 50V
C326	1-102-973-00	s CERAMIC 100PF 5% 50V
C327	1-102-973-00	s CERAMIC 100PF 5% 50V
C328	1-102-973-00	s CERAMIC 100PF 5% 50V
C329	1-101-880-00	s CERAMIC 47PF 5% 50V
C330	1-101-880-00	s CERAMIC 47PF 5% 50V
C331	1-130-483-00	s MYLAR 0.01uF 5% 50V
C332	1-130-483-00	s MYLAR 0.01uF 5% 50V
C333	1-124-910-11	s ELECT 47uF 20% 50V
C334	1-102-963-00	s CERAMIC 33PF 5% 50V
C335	1-124-910-11	s ELECT 47uF 20% 50V
C336	1-124-903-11	s ELECT 1uF 20% 50V
C337	1-130-483-00	s MYLAR 0.01uF 5% 50V
C338	1-130-483-00	s MYLAR 0.01uF 5% 50V
C339	1-102-973-00	s CERAMIC 100PF 5% 50V
C340	1-102-973-00	s CERAMIC 100PF 5% 50V
C341	1-126-233-11	s ELECT 22uF 20% 50V
C342	1-126-233-11	s ELECT 22uF 20% 50V
C343	1-124-910-11	s ELECT 47uF 20% 50V
C344	1-124-915-11	s ELECT 10uF 20% 63V
C345	1-102-963-00	s CERAMIC 33PF 5% 50V
C346	1-124-915-11	s ELECT 10uF 20% 63V
C347	1-130-483-00	s MYLAR 0.01uF 5% 50V

NOTE 2:For the # marked in the following parts list, refer to section 7, Changed Parts.

(AD-100 BOARD/DMBK-4012)

Ref. No. or Q'ty	Part No.	SP Description
C348	1-130-483-00	s MYLAR 0.01uF 5% 50V
C349	1-124-915-11	s ELECT 10uF 20% 63V
C350	1-102-963-00	s CERAMIC 33PF 5% 50V
C351	1-126-233-11	s ELECT 22uF 20% 50V
C352	1-124-915-11	s ELECT 10uF 20% 63V
C353	1-102-963-00	s CERAMIC 33PF 5% 50V
C354	1-124-910-11	s ELECT 47uF 20% 50V
C355	1-130-483-00	s MYLAR 0.01uF 5% 50V
to C362		
C363	1-126-947-11	s ELECT 47uF 20% 35V
C364	1-126-947-11	s ELECT 47uF 20% 35V
C365	1-124-915-11	s ELECT 10uF 20% 63V
C366	1-124-915-11	s ELECT 10uF 20% 63V
C367	1-130-483-00	s MYLAR 0.01uF 5% 50V
C368	1-130-483-00	s MYLAR 0.01uF 5% 50V
C369	1-126-768-11	s ELECT 2200uF 20% 16V
C370	1-126-924-11	s ELECT 330uF 20% 10V
C371	1-130-483-00	s MYLAR 0.01uF 5% 50V
C372	1-102-973-00	s CERAMIC 100PF 5% 50V
to C386		
C387	1-130-483-00	s MYLAR 0.01uF 5% 50V
#C391	1-164-182-11	s CERAMIC, CHIP 0.0033uF 10% 100V
#C392	1-164-182-11	s CERAMIC, CHIP 0.0033uF 10% 100V
#C393	1-164-182-11	s CERAMIC, CHIP 0.0033uF 10% 100V
C399	1-130-483-00	s MYLAR 0.01uF 5% 50V
C401	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C402	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C403	1-130-471-00	s MYLAR 0.001uF 5% 50V
C404	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C405	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C406	1-102-963-00	s CERAMIC 33PF 5% 50V
C407	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
to C412		
#C413	1-126-964-11	s ELECT 10uF 20% 50V
C501	1-124-916-11	s ELECT 22uF 20% 63V
C502	1-124-916-11	s ELECT 22uF 20% 63V
C503	1-126-233-11	s ELECT 22uF 20% 50V
C504	1-130-479-00	s MYLAR 0.0047uF 5% 50V
C505	1-102-973-00	s CERAMIC 100PF 5% 50V
C506	1-102-973-00	s CERAMIC 100PF 5% 50V
C507	1-126-768-11	s ELECT 2200uF 20% 16V
C508	1-124-910-11	s ELECT 47uF 20% 50V
C509	1-102-963-00	s CERAMIC 33PF 5% 50V
C510	1-130-483-00	s MYLAR 0.01uF 5% 50V
C511	1-130-483-00	s MYLAR 0.01uF 5% 50V
C512	1-124-910-11	s ELECT 47uF 20% 50V
C513	1-124-910-11	s ELECT 47uF 20% 50V
C514	1-102-963-00	s CERAMIC 33PF 5% 50V
C515	1-124-910-11	s ELECT 47uF 20% 50V
C516	1-124-910-11	s ELECT 47uF 20% 50V
C517	1-102-963-00	s CERAMIC 33PF 5% 50V
C518	1-130-483-00	s MYLAR 0.01uF 5% 50V
C519	1-130-483-00	s MYLAR 0.01uF 5% 50V
C520	1-124-910-11	s ELECT 47uF 20% 50V
C521	1-124-910-11	s ELECT 47uF 20% 50V
C522	1-126-025-11	s ELECT 330uF 20% 25V
C523	1-126-025-11	s ELECT 330uF 20% 25V
C524	1-126-233-11	s ELECT 22uF 20% 50V

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(AD-100 BOARD/DMBK-4012)

Ref. No. or Q'ty	Part No.	SP Description
C525	1-126-233-11	s ELECT 22uF 20% 50V
C526	1-102-973-00	s CERAMIC 100PF 5% 50V
C527	1-102-973-00	s CERAMIC 100PF 5% 50V
C528	1-102-973-00	s CERAMIC 100PF 5% 50V
C529	1-101-880-00	s CERAMIC 47PF 5% 50V
C530	1-101-880-00	s CERAMIC 47PF 5% 50V
C531	1-130-483-00	s MYLAR 0.01uF 5% 50V
C532	1-130-483-00	s MYLAR 0.01uF 5% 50V
C533	1-124-910-11	s ELECT 47uF 20% 50V
C534	1-102-963-00	s CERAMIC 33PF 5% 50V
C535	1-124-910-11	s ELECT 47uF 20% 50V
C536	1-124-903-11	s ELECT 1uF 20% 50V
C537	1-130-483-00	s MYLAR 0.01uF 5% 50V
C538	1-130-483-00	s MYLAR 0.01uF 5% 50V
C539	1-102-973-00	s CERAMIC 100PF 5% 50V
C540	1-102-973-00	s CERAMIC 100PF 5% 50V
C541	1-126-233-11	s ELECT 22uF 20% 50V
C542	1-126-233-11	s ELECT 22uF 20% 50V
C543	1-124-910-11	s ELECT 47uF 20% 50V
C544	1-124-915-11	s ELECT 10uF 20% 63V
C545	1-102-963-00	s CERAMIC 33PF 5% 50V
C546	1-124-915-11	s ELECT 10uF 20% 63V
C547	1-130-483-00	s MYLAR 0.01uF 5% 50V
C548	1-130-483-00	s MYLAR 0.01uF 5% 50V
C549	1-124-915-11	s ELECT 10uF 20% 63V
C550	1-102-963-00	s CERAMIC 33PF 5% 50V
C551	1-126-233-11	s ELECT 22uF 20% 50V
C552	1-124-915-11	s ELECT 10uF 20% 63V
C553	1-102-963-00	s CERAMIC 33PF 5% 50V
C554	1-124-910-11	s ELECT 47uF 20% 50V
C555	1-130-483-00	s MYLAR 0.01uF 5% 50V
to C562		
C563	1-126-947-11	s ELECT 47uF 20% 35V
C564	1-126-947-11	s ELECT 47uF 20% 35V
C565	1-124-915-11	s ELECT 10uF 20% 63V
C566	1-124-915-11	s ELECT 10uF 20% 63V
C567	1-130-483-00	s MYLAR 0.01uF 5% 50V
C568	1-130-483-00	s MYLAR 0.01uF 5% 50V
C569	1-126-768-11	s ELECT 2200uF 20% 16V
C572	1-102-973-00	s CERAMIC 100PF 5% 50V
to C582		
C584	1-102-973-00	s CERAMIC 100PF 5% 50V
C585	1-102-973-00	s CERAMIC 100PF 5% 50V
C586	1-102-973-00	s CERAMIC 100PF 5% 50V
#C591	1-164-182-11	s CERAMIC, CHIP 0.0033uF 10% 100V
#C592	1-164-182-11	s CERAMIC, CHIP 0.0033uF 10% 100V
#C593	1-164-182-11	s CERAMIC, CHIP 0.0033uF 10% 100V
C599	1-130-483-00	s MYLAR 0.01uF 5% 50V
C601	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C602	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C603	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C604	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
#C605	1-126-923-11	s ELECT 220uF 20% 10V
C606	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C607	1-102-963-00	s CERAMIC 33PF 5% 50V
C608	1-102-963-00	s CERAMIC 33PF 5% 50V
C609	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(AD-100 BOARD/DMBK-4012)

(AD-100 BOARD/DMBK-4012)

Ref. No. or Q'ty	Part No.	SP Description
CN301	1-695-252-11	o HEADER (RIGHT ANGLE TYPE) 26P
CN302	1-569-050-11	o CONNECTOR, PS TYPE 34P, MALE
CN611	1-564-411-11	o PIN, CONNECTOR 50P
CN701	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN702	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN703	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN704	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN705	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN706	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN707	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN708	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN709	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN710	1-563-771-11	s CONNECTOR, D-SUB 15P, FEMALE
CN711	1-560-755-00	o CONNECTOR, 16P, MALE
#CN712	1-764-825-11	s HEADER (RIGHT ANGLE TYPE) 10P
CN715	1-506-599-11	o PIN, CONNECTOR (B10P-VH) 10P
CNI1	1-526-659-00	o SOCKET, IC (DP) 28P
CNI601	1-526-659-00	o SOCKET, IC (DP) 28P
D1	8-719-948-47	s DIODE HSM88AS
D2	8-719-948-47	s DIODE HSM88AS
D3	8-719-801-78	s DIODE 1SS184
D4	8-719-948-47	s DIODE HSM88AS
to D8		
D101	8-719-801-78	s DIODE 1SS184
D102	8-719-801-78	s DIODE 1SS184
D201	8-719-801-78	s DIODE 1SS184
D202	8-719-801-78	s DIODE 1SS184
D301	8-719-157-36	s DIODE RD6.8M-B
D302	8-719-157-36	s DIODE RD6.8M-B
D303	8-719-157-36	s DIODE RD6.8M-B
D304	8-719-157-36	s DIODE RD6.8M-B
D305	8-719-801-78	s DIODE 1SS184
D306	8-719-106-88	s DIODE RD15M-B1
to D313		
D314	8-719-801-78	s DIODE 1SS184
D315	8-719-801-78	s DIODE 1SS184
D316	8-719-106-88	s DIODE RD15M-B1
D317	8-719-106-88	s DIODE RD15M-B1
D318	8-719-106-88	s DIODE RD15M-B1
D319	8-719-106-88	s DIODE RD15M-B1
D320	8-719-200-02	s DIODE 10E2
D321	8-719-200-02	s DIODE 10E2
D322	8-719-200-02	s DIODE 10E2
D323	8-719-200-02	s DIODE 10E2
D324	8-719-801-78	s DIODE 1SS184
to D328		
D401	8-719-911-19	s DIODE 1SS119
D402	8-719-911-19	s DIODE 1SS119
D501	8-719-157-36	s DIODE RD6.8M-B
D502	8-719-157-36	s DIODE RD6.8M-B
D503	8-719-157-36	s DIODE RD6.8M-B
D504	8-719-157-36	s DIODE RD6.8M-B
D505	8-719-801-78	s DIODE 1SS184
D506	8-719-106-88	s DIODE RD15M-B1
to D513		
D514	8-719-801-78	s DIODE 1SS184
D515	8-719-801-78	s DIODE 1SS184

Ref. No. or Q'ty	Part No.	SP Description
D516	8-719-106-88	s DIODE RD15M-B1
D517	8-719-106-88	s DIODE RD15M-B1
D518	8-719-106-88	s DIODE RD15M-B1
D519	8-719-106-88	s DIODE RD15M-B1
D520	8-719-200-02	s DIODE 10E2
D521	8-719-200-02	s DIODE 10E2
D522	8-719-200-02	s DIODE 10E2
D523	8-719-200-02	s DIODE 10E2
D524	8-719-801-78	s DIODE 1SS184
to D528		
D601	8-719-911-19	s DIODE 1SS119
DD301	1-647-398-11	s CONVERTER, UNIT DC-DC
FB1	1-412-694-11	s INDUCTOR, BEAD
FB2	1-412-694-11	s INDUCTOR, BEAD
FB3	1-412-694-11	s INDUCTOR, BEAD
FB301	1-412-694-11	s INDUCTOR, BEAD
to FB315		
FB501	1-412-694-11	s INDUCTOR, BEAD
to FB514		
FL401	1-424-008-11	s FILTER, NOISE (SIGNAL LINE)
IC1	8-759-197-36	s IC PCML760P
IC2	8-759-197-35	s IC DF1760P
IC3	8-759-231-53	s IC TA7805S
IC4	8-759-245-79	s IC TA79005S
IC6	8-759-925-76	s IC SN74HC08NS
IC101	8-759-900-72	s IC NE5532P
IC102	8-759-917-06	s IC SN74HC574N
IC103	8-759-908-16	s IC TL072CPS
IC110	8-759-062-88	s IC CXD8277Q
IC111	8-759-092-81	s IC SN75158PS
IC201	8-759-900-72	s IC NE5532P
IC202	8-759-917-06	s IC SN74HC574N
IC203	8-759-908-16	s IC TL072CPS
IC301	8-759-158-98	s IC SSM-2017P
IC302	8-759-900-72	s IC NE5532P
IC303	8-759-900-72	s IC NE5532P
IC304	8-759-900-72	s IC NE5532P
IC305	1-808-838-11	s HIC TAA-1S
IC306	8-759-990-62	s IC TL062CP
IC307	8-759-900-72	s IC NE5532P
IC308	8-759-925-80	s IC SN74HC14NS
IC309	8-759-231-59	s IC TA7815S
IC310	8-759-245-87	s IC TA79015S
IC311	8-759-107-35	s IC UPD5201C
IC312	8-759-107-35	s IC UPD5201C
IC313	8-759-925-85	s IC SN74HC32NS
IC401	8-752-306-51	s IC CX23065A
IC402	8-759-033-16	s IC MC74F74M
IC403	8-759-951-24	s IC SN75124N
IC404	8-759-927-18	s IC SN74HCT541NS
IC405	8-759-030-52	s IC MC74F163AM
IC406	8-759-030-52	s IC MC74F163AM
IC407	8-759-927-23	s IC SN74HCT574NS
IC408	8-759-927-17	s IC SN74HCT540NS
IC409	8-759-233-66	s IC TC74HCT04AF
IC501	8-759-158-98	s IC SSM-2017P

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(AD-100 BOARD/DMBK-4012)

Ref. No. or Q'ty	Part No.	SP Description
IC502	8-759-900-72	s IC NE5532P
IC503	8-759-900-72	s IC NE5532P
IC504	8-759-900-72	s IC NE5532P
IC505	1-808-838-11	s HIC TAA-IS
IC506	8-759-990-62	s IC TL062CP
IC507	8-759-900-72	s IC NE5532P
IC508	8-759-925-80	s IC SN74HC14NS
IC509	8-759-231-59	s IC TA7815S
IC510	8-759-245-87	s IC TA79015S
IC511	8-759-107-35	s IC UPD5201C
IC512	8-759-107-35	s IC UPD5201C
IC513	8-759-925-85	s IC SN74HC32NS
IC601	8-759-274-94	o IC 27C256B-AD100-V1.00
IC602	8-759-144-67	s IC UPD43256AGU-12L
IC603	8-759-072-59	s IC TMPZ84C011BF-6
IC604	8-759-926-07	s IC SN74HC132NS
IC605	8-759-247-69	o IC 16V8B-AD100#1V1.0
IC606	8-759-233-56	s IC TC74HC688AF
ICI601	1-526-659-00	o SOCKET, IC 28P
ICI605	1-526-656-00	s SOCKET, IC (DP) 20P
JW1	1-535-303-00	o WIRE, JUMPER
JW104	1-535-303-00	o WIRE, JUMPER
JW204	1-535-303-00	o WIRE, JUMPER
JW301	1-535-303-00	o WIRE, JUMPER
JW303	1-535-303-00	o WIRE, JUMPER
JW305	1-535-303-00	o WIRE, JUMPER
JW307	1-535-303-00	o WIRE, JUMPER
JW309	1-535-303-00	o WIRE, JUMPER
JW311	1-535-303-00	o WIRE, JUMPER
JW313	1-535-303-00	o WIRE, JUMPER
JW315	1-535-303-00	o WIRE, JUMPER
JW317	1-535-303-00	o WIRE, JUMPER
JW320	1-535-303-00	o WIRE, JUMPER
JW501	1-535-303-00	o WIRE, JUMPER
JW503	1-535-303-00	o WIRE, JUMPER
JW505	1-535-303-00	o WIRE, JUMPER
JW507	1-535-303-00	o WIRE, JUMPER
JW509	1-535-303-00	o WIRE, JUMPER
JW511	1-535-303-00	o WIRE, JUMPER
JW513	1-535-303-00	o WIRE, JUMPER
JW515	1-535-303-00	o WIRE, JUMPER
JW517	1-535-303-00	o WIRE, JUMPER
JW520	1-535-303-00	o WIRE, JUMPER
L301	1-409-339-00	s COIL, CHOKE
Q101	8-729-800-43	s TRANSISTOR 2SK152-3
Q102	8-729-800-43	s TRANSISTOR 2SK152-3
Q103	8-729-800-43	s TRANSISTOR 2SK152-3
Q201	8-729-800-43	s TRANSISTOR 2SK152-3
Q202	8-729-800-43	s TRANSISTOR 2SK152-3
Q203	8-729-800-43	s TRANSISTOR 2SK152-3
Q301	8-729-809-04	s TRANSISTOR 2SC4133
to Q305		
Q501	8-729-809-04	s TRANSISTOR 2SC4133
Q503	8-729-809-04	s TRANSISTOR 2SC4133
Q504	8-729-809-04	s TRANSISTOR 2SC4133
Q505	8-729-809-04	s TRANSISTOR 2SC4133

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(AD-100 BOARD/DMBK-4012)

Ref. No. or Q'ty	Part No.	SP Description
R1	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R2	1-216-693-11	s METAL, CHIP 56K 0.5% 1/10W
R3	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R4	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R5	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R6	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R7	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R8	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R9	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R10	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R101	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R102	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R103	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R105	1-215-445-00	s METAL 10K 1% 1/6W
R106	1-215-415-00	s METAL 560 1% 1/6W
R107	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R108	1-215-421-00	s METAL 1K 1% 1/6W
R109	1-215-445-00	s METAL 10K 1% 1/6W
R111	1-215-493-00	s METAL 1M 1% 1/6W
R112	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R113	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R114	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R115	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R116	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R117	1-216-660-11	s METAL, CHIP 2.4K 0.5% 1/10W
R118	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R119	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R120	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R121	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
#R122	1-216-650-11	s METAL, CHIP 910 0.5% 1/10W
R123	1-215-439-00	s METAL 5.6K 1% 1/6W
R124	1-216-697-11	s METAL, CHIP 82K 0.5% 1/10W
R125	1-216-694-11	s METAL, CHIP 62K 0.5% 1/10W
R126	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R127	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R128	1-216-688-11	s METAL, CHIP 36K 0.5% 1/10W
R129	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R130	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R131	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R132	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R133	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R134	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R135	1-215-421-00	s METAL 1K 1% 1/6W
R136	1-215-493-00	s METAL 1M 1% 1/6W
R137	1-215-493-00	s METAL 1M 1% 1/6W
R138	1-215-493-00	s METAL 1M 1% 1/6W
R201	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R202	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R203	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R205	1-215-445-00	s METAL 10K 1% 1/6W
R206	1-215-415-00	s METAL 560 1% 1/6W
R207	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R208	1-215-421-00	s METAL 1K 1% 1/6W
R209	1-215-445-00	s METAL 10K 1% 1/6W
R211	1-215-493-00	s METAL 1M 1% 1/6W
R212	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R213	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R214	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R215	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(AD-100 BOARD/DMBK-4012)

Ref. No. or Q'ty	Part No.	SP Description
R216	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R217	1-216-660-11	s METAL, CHIP 2.4K 0.5% 1/10W
R218	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R219	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R220	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R221	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
#R222	1-216-650-11	s METAL, CHIP 910 0.5% 1/10W
R223	1-215-439-00	s METAL 5.6K 1% 1/6W
R224	1-216-697-11	s METAL, CHIP 82K 0.5% 1/10W
R225	1-216-694-11	s METAL, CHIP 62K 0.5% 1/10W
R226	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R227	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R228	1-216-688-11	s METAL, CHIP 36K 0.5% 1/10W
R229	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R230	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R231	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R232	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R233	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R234	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R235	1-215-421-00	s METAL 1K 1% 1/6W
R236	1-215-493-00	s METAL 1M 1% 1/6W
R237	1-215-493-00	s METAL 1M 1% 1/6W
R238	1-215-493-00	s METAL 1M 1% 1/6W
R301	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R302	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R303	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R304	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R305	1-215-445-00	s METAL 10K 1% 1/6W
R306	1-216-615-11	s METAL, CHIP 33 0.5% 1/10W
R307	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R308	1-215-433-00	s METAL 3.3K 1% 1/6W
R309	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R310	1-215-433-00	s METAL 3.3K 1% 1/6W
R311	1-218-760-11	s METAL 220K 0.5% 1/10W
R312	1-215-428-00	s METAL 2K 1% 1/6W
R313	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R314	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R315	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R316	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R317	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R318	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R319	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R320	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R321	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R322	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
#R323	1-215-439-00	s METAL 5.6K 1% 1/6W
R324	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
#R325	1-215-437-00	s METAL 4.7K 1% 1/6W
R326	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R327	1-214-842-00	s METAL 120 1% 1/2W
R328	1-214-842-00	s METAL 120 1% 1/2W
R329	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R330	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R331	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R332	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R333	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R334	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R335	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R336	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W

(AD-100 BOARD/DMBK-4012)

Ref. No. or Q'ty	Part No.	SP Description
R337	1-215-447-00	s METAL 12K 1% 1/6W
R338	1-215-445-00	s METAL 10K 1% 1/6W
R339	1-215-445-00	s METAL 10K 1% 1/6W
R340	1-215-435-00	s METAL 3.9K 1% 1/6W
R341	1-215-435-00	s METAL 3.9K 1% 1/6W
R342	1-215-433-00	s METAL 3.3K 1% 1/6W
R343	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R344	1-215-433-00	s METAL 3.3K 1% 1/6W
R345	1-218-760-11	s METAL 220K 0.5% 1/10W
R346	1-215-428-00	s METAL 2K 1% 1/6W
R347	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R348	1-218-776-11	s METAL 1M 0.5% 1/10W
R349	1-215-455-00	s METAL 27K 1% 1/6W
R350	1-215-425-00	s METAL 1.5K 1% 1/6W
R351	1-218-776-11	s METAL 1M 0.5% 1/10W
R352	1-216-654-11	s METAL, CHIP 1.3K 0.5% 1/10W
R353	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R354	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R355	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R356	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R357	1-215-445-00	s METAL 10K 1% 1/6W
R358	1-215-445-00	s METAL 10K 1% 1/6W
R359	1-215-435-00	s METAL 3.9K 1% 1/6W
R360	1-215-435-00	s METAL 3.9K 1% 1/6W
R361	1-215-428-00	s METAL 2K 1% 1/6W
R362	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R363	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R364	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R365	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R366	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R367	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R368	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R369	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R370	1-218-760-11	s METAL 220K 0.5% 1/10W
R371	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R372	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
#R373	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
#R374	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R375	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R376	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R377	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R378	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R379	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R380	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R381	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R383	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R384	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R385	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R386	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R387	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R401	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R402	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R403	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R404	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R405	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R406	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R407	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R501	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R502	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(AD-100 BOARD/DMBK-4012)

Ref. No. or Q'ty	Part No.	SP Description
R503	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R504	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R505	1-215-445-00	s METAL 10K 1% 1/6W
R506	1-216-615-11	s METAL, CHIP 33 0.5% 1/10W
R507	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R508	1-215-433-00	s METAL 3.3K 1% 1/6W
R509	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R510	1-215-433-00	s METAL 3.3K 1% 1/6W
R511	1-218-760-11	s METAL 220K 0.5% 1/10W
R512	1-215-428-00	s METAL 2K 1% 1/6W
R513	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R514	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R515	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R516	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R517	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R518	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R519	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R520	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R521	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R522	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
#R523	1-215-439-00	s METAL 5.6K 1% 1/6W
R524	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
#R525	1-215-437-00	s METAL 4.7K 1% 1/6W
R526	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R527	1-214-842-00	s METAL 120 1% 1/2W
R528	1-214-842-00	s METAL 120 1% 1/2W
R529	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R530	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R531	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R532	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R533	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R534	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R535	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R536	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R537	1-215-447-00	s METAL 12K 1% 1/6W
R538	1-215-445-00	s METAL 10K 1% 1/6W
R539	1-215-445-00	s METAL 10K 1% 1/6W
R540	1-215-435-00	s METAL 3.9K 1% 1/6W
R541	1-215-435-00	s METAL 3.9K 1% 1/6W
R542	1-215-433-00	s METAL 3.3K 1% 1/6W
R543	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R544	1-215-433-00	s METAL 3.3K 1% 1/6W
R545	1-218-760-11	s METAL 220K 0.5% 1/10W
R546	1-215-428-00	s METAL 2K 1% 1/6W
R547	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R548	1-218-776-11	s METAL 1M 0.5% 1/10W
R549	1-215-455-00	s METAL 27K 1% 1/6W
R550	1-215-425-00	s METAL 1.5K 1% 1/6W
R551	1-218-776-11	s METAL 1M 0.5% 1/10W
R552	1-216-654-11	s METAL, CHIP 1.3K 0.5% 1/10W
R553	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R554	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R555	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R556	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R557	1-215-445-00	s METAL 10K 1% 1/6W
R558	1-215-445-00	s METAL 10K 1% 1/6W
R559	1-215-435-00	s METAL 3.9K 1% 1/6W
R560	1-215-435-00	s METAL 3.9K 1% 1/6W
R561	1-215-428-00	s METAL 2K 1% 1/6W

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

(AD-100 BOARD/DMBK-4012)

Ref. No. or Q'ty	Part No.	SP Description
R562	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R563	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R564	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R565	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R566	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R567	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R568	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R569	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R570	1-218-760-11	s METAL 220K 0.5% 1/10W
R571	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R572	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
#R573	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
#R574	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R575	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R576	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R577	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R578	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R579	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R580	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R581	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R583	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R584	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R585	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R586	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R587	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R601	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R602	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R603	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
RB1	1-232-984-11	s COMPOSITION CIRCUIT BLOCK
RB2	1-233-025-11	s COMPOSITION CIRCUIT BLOCK
RB401	1-233-093-11	s COMPOSITION CIRCUIT BLOCK
RB402	1-233-093-11	s COMPOSITION CIRCUIT BLOCK
RB601	1-235-195-00	s RESISTOR BLOCK 10KX8
RB602	1-235-195-00	s RESISTOR BLOCK 10KX8
RB603	1-235-195-00	s RESISTOR BLOCK 10KX8
RL301	1-515-622-11	s RELAY
RL302	1-515-622-11	s RELAY
RL501	1-515-622-11	s RELAY
RL502	1-515-622-11	s RELAY
RV101	1-230-749-11	s RES, ADJ, CERMET 5K
RV102	1-238-801-11	s RES, ADJ METAL 5K
RV201	1-230-749-11	s RES, ADJ, CERMET 5K
RV202	1-238-801-11	s RES, ADJ METAL 5K
RV301	1-230-749-11	s RES, ADJ, CERMET 5K
RV302	1-230-744-11	s RES, ADJ, CERMET 100
RV303	1-230-747-11	s RES, ADJ CERMET 1K
RV304	1-230-750-11	s RES, ADJ, CERMET 10K
RV305	1-230-747-11	s RES, ADJ CERMET 1K
RV306	1-230-749-11	s RES, ADJ, CERMET 5K
RV307	1-230-747-11	s RES, ADJ CERMET 1K
RV501	1-230-749-11	s RES, ADJ, CERMET 5K
RV502	1-230-744-11	s RES, ADJ, CERMET 100
RV503	1-230-747-11	s RES, ADJ CERMET 1K
RV504	1-230-750-11	s RES, ADJ, CERMET 10K
RV505	1-230-747-11	s RES, ADJ CERMET 1K
RV506	1-230-749-11	s RES, ADJ, CERMET 5K
RV507	1-230-747-11	s RES, ADJ CERMET 1K

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(AD-100 BOARD/DMBK-4012)

Ref. No. or Q'ty	Part No.	SP Description
S1	1-570-083-11	s SWITCH, SLIDE
S2	1-570-083-11	s SWITCH, SLIDE
SW601	1-554-937-11	s SWITCH, PUSH
SW602	1-570-623-11	s SWITCH, DIP 8-CKT
SW603	1-554-080-00	s SWITCH, DIGITAL
SW604	1-554-080-00	s SWITCH, DIGITAL
T1	1-437-194-21	s TRANSFORMER, PULSE
X401	8-749-923-59	s IC VCO-8003
X601	1-567-865-11	s CRYSTAL, 12.00MHz

SW-602 BOARD/DMBK-4012

Ref. No. or Q'ty	Part No.	SP Description
1pc	3-184-241-01	o FILM, MIC ON
1pc	1-649-759-11	o PRINTED CIRCUIT BOARD, SW-602
4pcs	4-928-315-01	s KEY TOP
1pc	4-937-336-51	o HOLDER, LED
CN1	1-564-974-11	o CONNECTOR, PS-SF 16P, MALE
D6	8-719-812-31	s LED TLR123, RED
S1	1-571-656-21	s SWITCH, TACTIL
S2	1-571-656-21	s SWITCH, TACTIL
S3	1-571-656-21	s SWITCH, TACTIL
S4	1-571-656-21	s SWITCH, TACTIL
S5	1-692-823-11	s SWITCH, TACTIL

VR-163 BOARD/DMBK-4012

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8276-807-A	o MOUNTED CIRCUIT BOARD, VR-163
2pcs	3-182-957-01	s WASHER, VOLUME
C10	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
C19	1-124-903-11	s ELECT 1uF 20% 50V
C20	1-124-903-11	s ELECT 1uF 20% 50V
C21	1-124-903-11	s ELECT 1uF 20% 50V
C101	1-124-903-11	s ELECT 1uF 20% 50V
C102	1-124-903-11	s ELECT 1uF 20% 50V
C103	1-124-903-11	s ELECT 1uF 20% 50V
C104	1-124-903-11	s ELECT 1uF 20% 50V
C105	1-130-495-00	s MYLAR 0.1uF 5% 50V
C106	1-130-495-00	s MYLAR 0.1uF 5% 50V
C107	1-124-903-11	s ELECT 1uF 20% 50V
C108	1-124-903-11	s ELECT 1uF 20% 50V
C109	1-124-903-11	s ELECT 1uF 20% 50V
C110	1-124-903-11	s ELECT 1uF 20% 50V
C111	1-130-495-00	s MYLAR 0.1uF 5% 50V
C112	1-130-495-00	s MYLAR 0.1uF 5% 50V
C113	1-124-903-11	s ELECT 1uF 20% 50V
C114	1-124-903-11	s ELECT 1uF 20% 50V
C115	1-124-903-11	s ELECT 1uF 20% 50V
C116	1-124-903-11	s ELECT 1uF 20% 50V
C117	1-130-495-00	s MYLAR 0.1uF 5% 50V
C118	1-130-495-00	s MYLAR 0.1uF 5% 50V
CN3	1-506-699-11	o CONNECTOR, LCSC 26P, MALE
CN4	1-560-729-00	o CONNECTOR, 34P, MALE
D1	8-719-911-19	s DIODE 1SS119
D2	8-719-911-19	s DIODE 1SS119
D3	8-719-911-19	s DIODE 1SS119
D4	8-719-911-19	s DIODE 1SS119
D10	8-719-987-87	s DIODE ERA85-009
IC1	8-759-291-30	s IC TC9130P
IC2	8-759-291-30	s IC TC9130P
IC3	8-759-291-30	s IC TC9130P
Q1	8-729-238-32	s TRANSISTOR 2SC2383-Y
Q2	8-729-238-32	s TRANSISTOR 2SC2383-Y
R1	1-249-392-11	s CARBON 8.2 5% 1/4W
R2	1-249-392-11	s CARBON 8.2 5% 1/4W
R105	1-249-409-11	s CARBON 220 5% 1/4W
R106	1-249-409-11	s CARBON 220 5% 1/4W
R107	1-249-409-11	s CARBON 220 5% 1/4W
R108	1-249-409-11	s CARBON 220 5% 1/4W
R113	1-260-081-11	s CARBON 33 5% 1/2W
R114	1-260-081-11	s CARBON 33 5% 1/2W
#R117	1-249-392-11	s CARBON 8.2 5% 1/4W
R118	1-215-377-00	s METAL 15 1% 1/6W
R119	1-215-389-00	s METAL 47 1% 1/6W
R120	1-215-401-11	s METAL 150 1% 1/6W
R121	1-215-414-00	s METAL 510 1% 1/6W
R122	1-215-427-00	s METAL 1.8K 1% 1/6W
R123	1-249-392-11	s CARBON 8.2 5% 1/4W
R124	1-215-377-00	s METAL 15 1% 1/6W
R125	1-215-389-00	s METAL 47 1% 1/6W
R126	1-215-401-11	s METAL 150 1% 1/6W
R127	1-215-414-00	s METAL 510 1% 1/6W
R128	1-215-427-00	s METAL 1.8K 1% 1/6W

NOTE 1: Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2: For the # marked in the following parts list, refer to section 7, Changed Parts.

(VR-163 BOARD/DMBK-4012)

Ref. No. or Q'ty	Part No.	SP Description
R133	1-249-409-11	s CARBON 220 5% 1/4W
R134	1-249-409-11	s CARBON 220 5% 1/4W
R135	1-249-409-11	s CARBON 220 5% 1/4W
R136	1-249-409-11	s CARBON 220 5% 1/4W
R137	1-249-429-11	S CARBON 10K 5% 1/4W
R138	1-249-429-11	S CARBON 10K 5% 1/4W
R139	1-249-429-11	S CARBON 10K 5% 1/4W
R140	1-249-413-11	s CARBON 470 5% 1/4W
R141	1-249-413-11	s CARBON 470 5% 1/4W
R142	1-249-429-11	s CARBON 10K 5% 1/4W
R143	1-249-429-11	s CARBON 10K 5% 1/4W
RB101	1-235-195-00	s RESISTOR BLOCK 10KX8
RB102	1-235-195-00	s RESISTOR BLOCK 10KX8
#RV1	1-223-614-11	s RES, VAR, CARBON 10K/10K
#RV2	1-223-614-11	s RES, VAR, CARBON 10K/10K
#S101	1-692-902-11	s SWITCH, ROTARY
#S102	1-692-902-11	s SWITCH, ROTARY

FRAME

Ref. No. or Q'ty	Part No.	SP Description
DMX-B4008/B4016 ** METER UNIT **		
1pc	1-503-291-00	s SPEAKER
CN1(SPEAKER) 1-509-184-51 s CONNECTOR, XLR 3P, FEMALE		
CN1(METER DIGITAL) 1-563-771-11 s CONNECTOR, D-SUB 15P, FEMALE		
DMX-B4008/B4016 ** CONSOLE **		
1pc	1-466-954-11	s DISPLAY UNIT, EL
1pc	1-692-812-11	s PANEL, TOUCH
1pc	8-422-940-01	s DRIVE, FLOPPY DISK MPF420-2/120
1pc	▲ 1-424-451-11	s FILTER, NOISE (GL-2060M)
1pc	▲ 1-413-915-11	s SWITCHING REG.(TDK.FAW05-20R)
1pc	▲ 1-413-918-11	s SWITCHING REG.(TDK.FAW12-2R1)
1pc	▲ 1-570-117-41	s SWITCH, ROCKER (AC POWER)
1pc	1-944-634-11	s HARNESS, SUB (TB MIC) This cable includes the following connector. CN101F(to VR-165 board)
1pc	1-952-707-11	o HARNESS, SUB (MONITOR) This cable includes the following connectors. CN501(to MOA-7 board) CN610(to CN-840 board)
1pc	1-952-708-11	o HARNESS, SUB (INCOM) This cable includes the following connectors. CN502(to MOA-7 board) CN611(to CN-840 board)
1pc	1-952-709-11	o HARNESS, SUB (SURR/MT) This cable includes the following connectors. CN503(to MOA-7 board) CN612(to CN-840 board)
1pc	1-952-710-11	o HARNESS, SUB (MONI-SW1) This cable includes the following connectors. CN510(to MOA-7 board) CN616(to VR-165 board)
1pc	1-952-711-11	o HARNESS, SUB (BUS) This cable includes the following connectors. CN202(to CPU-145 board) CN401(to IF-413 board)
1pc	1-952-712-11	o HARNESS, SUB (FDD) This cable includes the following connectors. CN101(to FLOPPY DISK DRIVE) CN206(to CPU-145 board)
1pc	1-952-713-11	o HARNESS, SUB (MONI-CTL) This cable includes the following connectors. CN408(to IF-413 board) CN511(to MOA-7 board)
1pc	1-952-714-11	o HARNESS, SUB (PFL) This cable includes the following connectors. CN103(to KY-225 board) CN119(to SW-604 board)

NOTE 1:Please see page 6-25 for the parts that are not listed in the parts list.

NOTE 2:For the # marked in the following parts list, refer to section 7, Changed Parts.

(FRAME)

Ref. No.
or Q'ty

Part No. SP Description

1pc 1-952-715-11 o HARNESS, SUB (MCN-CTL)
This cable includes the following connectors.
CN104(to KY-225 board)
CN121(to SW-605 board)

1pc 1-952-716-11 o HARNESS, SUB (EL)
This cable includes the following connectors.
CN5(to EL DISPLAY)
CN362(to IF-414 board)

1pc 1-952-717-11 o HARNESS, SUB (MON1-SW2)
This cable includes the following connectors.
CN615(to SW-606 board)
CN620(to VR-165 board)

1pc 1-952-718-11 o HARNESS, SUB (MT)
This cable includes the following connectors.
CN1(to METER UNIT)
CN121(to IF-421 board)

1pc 1-952-727-13 o HARNESS (I/O 8) (DMX-B4008 ONLY)
This cable includes the following connectors.
CN101(to KY-225 board)
CN201/204/205(to CPU-145 board)
CN331/332/341/361(to IF-414 board)
CN402/403/404/405/406/407/409(to IF-413 board)
CN601/602/603/604(to CN-838 board)
CN605/606/607/608/609(to CN-839 board)
CN712A/712B(to AD-100 board)
CN802(to CPU-146 board (DMBK-4001))
CN805(to CN-842 board (DMBK-4001))
CN916(to PS-312 board)

1pc 1-953-238-12 o HARNESS (I/O 16) (DMX-B4016 ONLY)
This cable includes the following connectors.
CN101A/101B/102(to KY-225 board)
CN201/204/205(to CPU-145 board)
CN331/332/341/361(to IF-414 board)
CN402/403/404/405/406/407/409(to IF-413 board)
CN601/602/603/604(to CN-838 board)
CN605/606/607/608/609(to CN-839 board)
CN712A/712B/712C/712D(to AD-100 board)
CN802(to CPU-146 board (DMBK-4001))
CN805(to CN-842 board (DMBK-4001))
CN916(to PS-312 board)

2pcs ▲ 1-413-919-11 s SWITCHING REG.(TDK.FAW18-2R8)

3pcs(to AC INLET)
▲ 1-565-788-11 o HOUSING, 1P
▲ 1-565-787-21 o CONTACT, FASTEN

9pcs 1-241-009-11 s RES, VAR, SLIDE 10K

CN1(to POWER SUPPLY 1)
▲ 1-750-978-11 o HOUSING, 24P
▲ 1-573-518-11 o CONTACT, FEMALE AWG18-24
▲ 1-573-757-11 o CONTACT, FEMALE AWG14-16

CN1(to HARNESS, SUB (SP1))
1-562-195-11 o HOUSING, IL-M 2P
1-566-455-11 o CONTACT, FEMALE AWG22-28

CN1(GPI 1)
1-563-781-21 s CONNECTOR, D-SUB 50P, FEMALE

CN1(PROCESSOR AUDIO)
1-566-321-11 s CONNECTOR, D-SUB 37P, MALE

(FRAME)

Ref. No.
or Q'ty

Part No. SP Description

CN1(CONTROL ROOM MONITOR OUT MAIN L)
1-568-005-11 s CONNECTOR, XLR 3P, MALE (FOR J)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE
(FOR UC/EK)

CN1(PROCESSOR WORD)
1-764-273-11 s CONNECTOR, BNC, FEMALE

CN2(COMMUNICATION)
1-563-773-11 s CONNECTOR, D-SUB 37P, FEMALE

CN2(to POWER SUPPLY 2)
▲ 1-750-978-11 o HOUSING, 24P
▲ 1-573-518-11 o CONTACT, FEMALE AWG18-24
▲ 1-573-757-21 o CONTACT, FEMALE AWG14-16

CN2(to HARNESS, SUB (SP2))
1-561-514-00 o HOUSING, ILG 2P
1-560-372-00 o CONTACT, FEMALE AWG22-28

CN2(GPI 2)
1-563-781-21 s CONNECTOR, D-SUB 50P, FEMALE

CN2(PROCESSOR DATA)
1-566-319-11 o CONNECTOR, D-SUB 15P, MALE

CN2(CONTROL ROOM MONITOR OUT MAIN R)
1-568-005-11 s CONNECTOR, XLR 3P, MALE (FOR J)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE
(FOR UC/EK)

CN3(REMOTE IN)
1-563-770-11 s CONNECTOR, D-SUB 9P, FEMALE

CN3(GPI 3)
1-563-772-11 o CONNECTOR, D-SUB 25P, FEMALE

CN3(CONTROL ROOM MONITOR OUT ALT L)
1-568-005-11 s CONNECTOR, XLR 3P, MALE (FOR J)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE
(FOR UC/EK)

CN3(SURROUND MONITOR IN L)
1-568-005-11 s CONNECTOR, XLR 3P, MALE (FOR J)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE
(FOR UC/EK)

CN4(REMOTE OUT)
1-563-770-11 s CONNECTOR, D-SUB 9P, FEMALE

CN4(CONTROL ROOM MONITOR OUT ALT R)
1-568-005-11 s CONNECTOR, XLR 3P, MALE (FOR J)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE
(FOR UC/EK)

CN4(SURROUND MONITOR IN R)
1-568-005-11 s CONNECTOR, XLR 3P, MALE (FOR J)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE
(FOR UC/EK)

CN4(DIGITAL RGB)
1-563-770-11 s CONNECTOR, D-SUB 9P, FEMALE

CN5(KEYBOARD)
1-563-770-11 s CONNECTOR, D-SUB 9P, FEMALE

CN5(PARALLEL REMOTE SCENE)
1-563-771-11 s CONNECTOR, D-SUB 15P, FEMALE

CN5(SURROUND MONITOR IN C)
1-568-005-11 s CONNECTOR, XLR 3P, MALE (FOR J)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE
(FOR UC/EK)

CN6(METER DIGITAL)
1-563-771-11 s CONNECTOR, D-SUB 15P, FEMALE

(FRAME)

Ref. No.
or Q'ty Part No. SP Description

CN6(SURROUND MONITOR IN S)
1-568-005-11 s CONNECTOR, XLR 3P, MALE (FOR J)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE
(FOR UC/EK)

CN6(PARALLEL REMOTE MUTE)
1-563-781-21 s CONNECTOR, D-SUB 50P, FEMALE

CN7(PARALLEL REMOTE FADER)
1-563-781-21 s CONNECTOR, D-SUB 50P, FEMALE

CN7(METER ANALOG)
1-563-770-11 s CONNECTOR, D-SUB 9P, FEMALE

CN7(STUDIO MONITOR OUT SP L)
1-568-005-11 s CONNECTOR, XLR 3P, MALE (FOR J)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE
(FOR UC/EK)

CN8(STUDIO MONITOR OUT SP R)
1-568-005-11 s CONNECTOR, XLR 3P, MALE (FOR J)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE
(FOR UC/EK)

CN9(STUDIO MONITOR OUT HP L)
1-568-005-11 s CONNECTOR, XLR 3P, MALE (FOR J)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE
(FOR UC/EK)

CN10(STUDIO MONITOR OUT HP R)
1-568-005-11 s CONNECTOR, XLR 3P, MALE (FOR J)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE
(FOR UC/EK)

CN111(to SW-604 board)
1-569-196-11 o HOUSING, 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN112(to SW-604 board)
1-569-196-11 o HOUSING, 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN113(to SW-604 board)
1-569-196-11 o HOUSING, 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN114(to SW-604 board)
1-569-196-11 o HOUSING, 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN115(to SW-604 board)
1-569-196-11 o HOUSING, 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN116(to SW-604 board)
1-569-196-11 o HOUSING, 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN117(to SW-604 board)
1-569-196-11 o HOUSING, 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN118(to SW-604 board)
1-569-196-11 o HOUSING, 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN342(to IF-414 board)
1-569-196-11 o HOUSING, 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN617(to VR-165 board)
1-569-196-11 o HOUSING, 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

(FRAME)

Ref. No.
or Q'ty Part No. SP Description

CN951(to POWER SUPPLY)
1-691-186-11 o HOUSING, 24P
1-573-518-11 o CONTACT, FEMALE AWG18-24
1-535-321-11 o CONTACT, FEMALE AWG22-28

DMX-B4008
** PROCESSOR **

1pc 1-413-955-11 s SWITCHING REG.(TDK.MRW-171-1)
1pc 1-424-451-11 s FILTER, NOISE (GL-2060M)
1pc 1-541-891-11 s MOTOR, DC FAN (WITH FG)
1pc 1-570-117-41 s SWITCH, ROCKER (AC POWER)

1pc(DC IN)
1-562-160-00 s CONNECTOR, 12P, FEMALE

CN2(INS IN)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN2(INPUT 1/2)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN2(INPUT 17/18)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN2(PGM L/R 1)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN2(AUX 1)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN3(INPUT 3/4)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN3(INPUT 19/20)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN3(INS OUT)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN3(PGM L/R 2)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN3(AUX 2)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN4(INPUT 5/6)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN4(INPUT 21/22)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN4(PGM L/R 3)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN4(PFL)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN5(CONSOLE AUDIO)
1-563-773-11 s CONNECTOR, D-SUB 37P, FEMALE

CN5(INPUT 7/8)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN5(INPUT 23/24)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN5(PGM L/R 4)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

(FRAME)

Ref. No.

or Q'ty Part No. SP Description

CN6(INPUT 9/10)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN6(INPUT 25/26)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN6(REF VIDEO INPUT)
1-764-273-11 s CONNECTOR, BNC, FEMALE

CN6(PGM L/R 5)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN7(INPUT 11/12)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN7(INPUT 27/28)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN7(REF VIDEO INPUT)
1-764-273-11 s CONNECTOR, BNC, FEMALE

CN7(PGM L/R 6)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN8(INPUT 13/14)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN8(INPUT 29/30)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN8(REF WORD IN)
1-764-273-11 s CONNECTOR, BNC, FEMALE

CN8(PGM L/R 7)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN9(INPUT 15/16)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN9(INPUT 31/32)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN9(REF WORD OUT)
1-764-273-11 s CONNECTOR, BNC, FEMALE

CN9(PGM L/R 8)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN10(to MB-481 board)
1-561-515-12 o HOUSING, ILG 3P
1-506-740-11 o CONTACT, ILG, FEMALE AWG22-28

CN10(CONSOLE)
1-563-771-11 s CONNECTOR, D-SUB 15P, FEMALE

CN11(RS-232C)
1-563-772-11 s CONNECTOR, D-SUB 25P, FEMALE

CN12(REF WORD OUT)
1-764-273-11 s CONNECTOR, BNC, FEMALE

CNE/L/N(to AC INLET)
▲ 1-565-788-11 o HOUSING, 1P
▲ 1-565-787-11 o CONTACT, FASTEN

CNA(to POWER SUPPLY)
▲ 1-691-940-11 o HOUSING, 16P
▲ 1-573-518-11 o CONTACT, FEMALE AWG18-24

(FRAME)

Ref. No.

or Q'ty Part No. SP Description

CNB(to POWER SUPPLY)
▲ 1-691-941-11 o HOUSING, 16P
▲ 1-573-518-11 o CONTACT, FEMALE AWG18-24

CP1(to SWITCHING REGULATOR)
▲ 1-565-788-11 o HOUSING, 1P
▲ 1-565-787-11 o CONTACT, FASTEN

CP2(to SWITCHING REGULATOR)
▲ 1-750-171-11 s CONNECTOR, 2P
▲ 1-569-595-11 s CONTACT, FEMALE AWG18-24

DMX-B4016
** PROCESSOR **

1pc ▲ 1-413-956-11 s SWITCHING REG.(TDK.FAW05-30R)
1pc ▲ 1-570-384-11 s SWITCH ROCKER (AC POWER)
2pcs ▲ 1-413-919-11 s SWITCHING REG.(TDK.FAW18-2R8)
2pcs ▲ 1-424-451-11 s FILTER, NOISE (GL-2060M)
3pcs 1-541-891-11 s MOTOR, DC FAN (WITH FG)

28pcs ▲ 1-535-321-11 s CONTACT, FEMALE AWG22-28

CN2(RS-232C)
1-563-772-11 s CONNECTOR, D-SUB 25P, FEMALE

CN2(CONSOLE AUDIO)
1-563-773-11 s CONNECTIR, D-SUB 37P, FEMALE

CN2(GROUP OUT 1)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN2(INPUT ST1)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN2(ON AIR)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN2(INPUT ST17)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN2(MONITOR INPUT ON AIR)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN3(CONSOLE DATA)
1-563-771-11 s CONNECTOR, D-SUB 15P, FEMALE

CN3(GROUP OUT 2)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN3(INPUT ST2)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN3(INPUT ST18)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN3(MONITOR INPUT 1)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN3(ANALOG OUT L)
1-568-005-11 s CONNECTOR, XLR 3P, MALE(FOR UC/EK)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE(FOR J)

CN4(REMOTE IN)
1-563-770-11 s CONNECTOR, D-SUB 9P, FEMALE

CN4(GROUP OUT 3)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN4(INPUT ST3)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

(FRAME)

Ref. No. or Q'ty	Part No.	SP Description
CN4(INPUT ST19)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN4(MONITOR INPUT 2)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN4(ANALOG OUT R)	1-568-005-11	s CONNECTOR, XLR 3P, MALE(FOR UC/EK)
	1-568-006-11	s CONNECTOR, XLR 3P, FRMALE(FOR J)
CN5(REMOTE OUT)	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN5(GROUP OUT 4)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN5(INPUT ST4)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN5(INPUT ST20)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN5(MONITOR INPUT 3)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN6(GROUP OUT 5)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN6(INPUT ST5)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN6(INPUT ST21)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN6(MONITOR INPUT 4)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN7(GROUP OUT 6)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN7(INPUT ST6)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN7(INPUT ST22)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN7(REF WORD OUT2)	1-764-273-11	s CONNECTOR, BNC, FRMALE
CN8(GROUP OUT 7)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN8(INPUT ST7)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN8(INPUT ST23)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN8(REF WORD OUT1)	1-764-273-11	s CONNECTOR, BNC, FRMALE
CN9(GROUP OUT 8)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN9(INPUT ST8)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN9(INPUT ST24)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE

(FRAME)

Ref. No. or Q'ty	Part No.	SP Description
CN9(INSERT RTN1)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN9(REF WORD IN)	1-764-273-11	s CONNECTOR, BNC, FRMALE
CN10(DUBBING OUT 1)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN10(INPUT ST9)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN10(INPUT ST25)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN10(INSERT RTN2)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN10(REF VIDEO IN)	1-764-273-11	s CONNECTOR, BNC, FRMALE
CN11(INSERT SND1)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN11(DUBBING OUT 2)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN11(INPUT ST10)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN11(INPUT ST26)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN11(REF VIDEO IN)	1-764-273-11	s CONNECTOR, BNC, FRMALE
CN12(INSERT SND2)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN12(DUBBING OUT 3)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN12(INPUT ST11)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN12(INPUT ST27)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN13(OUTPUT PGM)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN13(DUBBING OUT 4)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN13(INPUT ST12)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN13(INPUT ST28)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN14(OUTPUT PGM)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN14(DUBBING OUT 5)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN14(INPUT ST13)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE

(FRAME)

Ref. No. or Q'ty	Part No.	SP Description
CN14(INPUT ST29)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN15(OUTPUT AUX1)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN15(DUBBING OUT 6)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN15(INPUT ST14)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN15(INPUT 5ST30)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN16(OUTPUT AUX2)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN16(DUBBING OUT 7)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN16(INPUT ST15)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN17(OUTPUT PFL)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN17(DUBBING OUT 8)	1-568-005-11	s CONNECTOR, XLR 3P, MALE
CN17(INPUT ST16)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CN17(ID/TB)	1-568-006-11	s CONNECTOR, XLR 3P, FEMALE
CNA(to POWER SUPPLY)	1-691-940-11	o HOUSING, 16P
	1-573-518-11	o CONTACT, FEMALE AWG18-24
CNB(to POWER SUPPLY)	1-691-941-11	o HOUSING, 16P
	1-573-518-11	o CONTACT, FEMALE AWG18-24
CNE/L/N(to AC INLET)	1-565-788-11	o HOUSING, 1P
	1-565-787-11	o CONTACT, FASTEN

(FRAME)

Ref. No. or Q'ty	Part No.	SP Description
DMBK-4001(OPTION)		
1pc	1-466-955-11	s ROTARY ENCODER
CN1(SONY 9PIN REMOTE 1)	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN2(SONY 9PIN REMOTE 2)	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN3(SONY 9PIN REMOTE 3)	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN4(SONY 9PIN REMOTE 4)	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN5(SONY 9PIN REMOTE 5)	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN6(SONY 9PIN REMOTE 6)	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE
CN7(PARALLEL REMOTE 7)	1-563-771-11	s CONNECTOR, D-SUB 15P, FEMALE
DMBK-4003(OPTION)		
1pc	1-520-516-11	s VU METER
CN1(METER ANALOG)	1-566-718-21	s CONNECTOR, D-SUB 9P, MALE
DMBK-4007(OPTION)		
1pc	1-413-955-11	s SWITCHING REG. (TDK.MRW-171-1)
1pc	1-570-384-11	s SWITCH, ROCKER (AC POWER)
1pc	1-424-451-11	s FILTER, NOISE (GL-2060M)
1pc(DC IN)	1-562-160-00	s CONNECTOR, 12P, FEMALE
CN1(to SWITCHING REGULATOR)	1-750-171-11	s CONNECTOR, 2P
	1-569-595-11	s CONTACT, FEMALE AWG18-24
CNE/L/N(to AC INLET)	1-565-788-11	o HOUSING, 1P
	1-565-787-11	o CONTACT, FASTEN

(FRAME)

Ref. No.
or Q'ty Part No. SP Description

DMBK-4008(OPTION)

1pc ⚠ 1-413-956-11 s SWITCHING REG. (TDK.FAW05-30R)
1pc ⚠ 1-570-384-11 s SWITCH, ROCKER (AC POWER)
2pcs ⚠ 1-413-919-11 s SWITCHING REG. (TDK.FAW18-2R8)
28pcs ⚠ 1-535-321-11 s CONTACT, FEMALE AWG22-28

CNA(to POWER SUPPLY)

⚠ 1-691-940-11 o HOUSING, 16P
⚠ 1-573-518-11 o CONTACT, FEMALE AWG18-24

DMBK-4009(OPTION)

1pc ⚠ 1-413-915-11 s SWITCHING REG. (TDK.FAW05-20R)
1pc ⚠ 1-413-918-11 s SWITCHING REG. (TDK.FAW12-2R1)
1pc ⚠ 1-424-451-11 s FILTER, NOISE (GL-2060M)
2pcs ⚠ 1-413-919-11 s SWITCHING REG. (TDK.FAW18-2R8)

3pcs(to AC INLET)

⚠ 1-565-788-11 o HOUSING, 1P
⚠ 1-565-787-11 o CONTACT, FASTEN

CN1(to POWER SUPPLY 2)

⚠ 1-691-186-11 o HOUSING, 24P
⚠ 1-573-518-11 o CONTACT, FEMALE AWG18-24
⚠ 1-535-321-11 o CONTACT, FEMALE AWG18-24

(FRAME)

Ref. No.
or Q'ty Part No. SP Description

DMBK-4010(OPTION)

1pc 1-952-714-11 o HARNESS, SUB (PFL)
This cable includes the following connectors.
CN103(to KY-225 board)
CN119(to SW-604 board)

1pc 1-952-715-11 o HARNESS, SUB (MCN-CTL)
This cable includes the following connectors.
CN104(to KY-225 board)
CN121(to SW-605 board)

8pcs 1-241-009-11 s RES, VAR 10K

CN111(to SW-604 board)
1-569-196-11 o HOUSING 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN112(to SW-604 board)
1-569-196-11 o HOUSING 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN113(to SW-604 board)
1-569-196-11 o HOUSING 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN114(to SW-604 board)
1-569-196-11 o HOUSING 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN115(to SW-604 board)
1-569-196-11 o HOUSING 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN116(to SW-604 board)
1-569-196-11 o HOUSING 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN117(to SW-604 board)
1-569-196-11 o HOUSING 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

CN118(to SW-604 board)
1-569-196-11 o HOUSING 3P
1-569-191-11 o CONTACT, FEMALE AWG22-26

(FRAME)

Ref. No.
or Q'ty Part No. SP Description

DMBK-4012(OPTION)

CN701(ANALOG IN 1 IN)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN702(ANALOG IN LINE)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN703(DIGITAL OUT)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN704(ANALOG IN 1 MIC)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN705(ANALOG IN 2 IN)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN706(ANALOG IN 2 LINE)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN707(ANALOG IN 1 OUT)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN708(ANALOG IN 2 MIC)
1-568-006-11 s CONNECTOR, XLR 3P, FEMALE

CN709(ANALOG IN 2 OUT)
1-568-005-11 s CONNECTOR, XLR 3P, MALE

CN710(MIC REMOTE)
1-563-771-11 s CONNECTOR, D-SUB 15P, FEMALE

6-4. SUPPLIED ACCESSORIES

Ref. No.
or Q'ty Part No. SP Description

DMX-B4008

1pc 1-551-475-71 s CABLE ASSY, 10m
1pc 1-557-714-11 s CORD, CONNECTION, 1m
1pc 1-695-542-11 o RESISTOR, CONNECTOR TERMINATION
1pc 1-751-756-11 s CORD, CONNECTION (8CH MULTI), 10m
1pc 1-751-760-11 s CORD, CONNECTION (HDLC), 1m

1pc 1-751-761-11 s CORD, CONNECTION (HDLC), 10m
2pcs Δ 1-557-161-11 s COAD, POWER (FOR J)
2pcs Δ 1-557-377-11 s CORD, POWER (FOR UC)
2pcs Δ 1-590-910-11 s COAD, POWER (FOR EK)
2pcs 2-990-242-01 s HOLDER (B), PLUG

DMX-B4016

1pc 1-551-475-71 s CABLE ASSY, 10m
1pc 1-557-714-11 s CORD, CONNECTION, 1m
1pc 1-695-542-11 o RESISTOR, CONNECTOR TERMINATION
1pc 1-751-756-11 s CORD, CONNECTION (8CH MULTI), 10m
1pc 1-751-760-11 s CORD, CONNECTION (HDLC), 1m

1pc 1-751-761-11 s CORD, CONNECTION (HDLC), 10m
2pcs Δ 1-557-161-11 s COAD, POWER (FOR J)
2pcs Δ 1-557-377-11 s CORD, POWER (FOR UC)
2pcs Δ 1-590-910-11 s COAD, POWER (FOR EK)
2pcs 2-990-242-01 s HOLDER (B), PLUG

DMBK-4001 (OPTION)

1pc 1-953-228-11 o HARNESS, SUB (RM)
2pcs 7-682-903-01 s SCREW +PWH 3x5
4pcs 7-682-547-09 s SCREW +B 3x6

DMBK-4002 (OPTION)

2pcs 3-183-529-02 o PLATE, BLIND
4pcs 2-388-223-01 s NUT, HEXAGON
4pcs 3-184-614-01 s SPRING SPACER, DIA.10
4pcs 4-701-102-21 s BOLT(M10x100), HEXAGON SOCKET
4pcs 7-682-561-09 s SCREW +B 4X8

8pcs 2-388-224-01 s WASHER, FLAT
16pcs 7-682-662-09 s SCREW +PS 4X10

DMBK-4003 (OPTION)

1pc 1-765-280-11 s COAD, CONNECTION, 1m

DMBK-4004 (OPTION)

1pc X-3167-357-1 o PAD (CH) ASSY
2pcs 3-184-415-01 o ARM, REINFORCEMENT
3pcs 7-682-547-09 s SCREW +B 3x6
24pcs 7-682-562-09 s SCREW +B 4x10
25pcs 7-682-903-01 s SCREW +PWH 3x5

(SUPPLIED ACCESSORIES)

Ref. No.
or Q'ty Part No. SP Description

DMBK-4005 (OPTION)

26pcs 7-682-903-01 s SCREW +PWH 3X5

DMBK-4006 (OPTION)

1pc X-3167-354-1 o SLEEVE (R) ASSY
1pc X-3167-355-1 o SLEEVE (L) ASSY

1pc X-3167-356-1 o PAD (MAS) ASSY
1pc X-3167-357-1 o PAD (CH) ASSY
4pcs 7-682-568-09 s SCREW +B 4x30
7pcs 7-688-004-11 s WASHER W4, MIDDLE
47pcs 7-682-547-09 s SCREW +B 3x6

DMBK-4007 (OPTION)

1pc ▲ 1-534-754-11 s POWER CORD (FOR J)
1pc ▲ 1-557-377-11 s POWER CORD (FOR UC)
1pc ▲ 1-590-910-11 s POWER CORD (FOR EK)
1pc 1-765-409-11 s COAD, CONNECTION DC, 0.7m
1pc 2-990-242-01 s HOLDER(B), PLUG

4pcs 7-682-903-01 s SCREW +PWH 3x5

DMBK-4008 (OPTION)

1pc ▲ 1-557-161-00 s POWER CORD (FOR J)
1pc ▲ 1-557-377-11 s POWER CORD (FOR UC)
1pc ▲ 1-590-910-11 s POWER CORD (FOR EK)
1pc 2-990-242-01 s HOLDER (B), PLUG
4pcs 7-682-903-01 s SCREW +PWH 3x5

DMBK-4009 (OPTION)

1pc ▲ 1-534-754-00 s POWER CORD (FOR J)
1pc ▲ 1-557-377-11 s POWER CORD (FOR UC)
1pc ▲ 1-590-910-11 s POWER CORD (FOR EK)
1pc 2-990-242-01 s HOLDER (B), PLUG
4pcs 7-682-547-09 s SCREW +B 3x6

DMBK-4010 (OPTION)

1pc X-3167-357-1 o PAD (CH) ASSY
1pc 1-953-230-11 o HARNESS, SUB (CH-ADD)
22pcs 7-682-903-01 s SCREW +PWH 3x5
24pcs 7-682-562-09 s SCREW +B 4x10

6-5. OPTIONAL FIXTURE

Part No. SP Description

J-6400-050-A o EXTENSION BOARD, EX-360 (FOR DMX-B4008)
J-6401-160-A o POWER SUPPLY EXTENDER
(FOR DMX-B4008 PROCESSOR)
J-6401-170-A o POWER SUPPLY EXTENDER (FOR CONSOLE)
J-6401-180-A o CONVERSION CABLE, Dsub-XLR
J-6401-190-A o EXTENSION BOARD, EX-455 (FOR DMX-B4016)

SECTION 7

CHANGED PARTS

NOTE: The numbers identified by making with) are matching with each serial numbers. See the table matched with each serial numbers at the end of this section.

(FOR DMX-B4008 UC)

307) Serial No. 10001 and higher.
310) Serial No. 10003 and higher.

(FOR DMX-B4008 J)

307) Serial No. 20001 and higher.
310) Serial No. 20003 and higher.
311) Serial No. 20004 and higher.

(FOR DMX-B4008 EK)

307) Serial No. 30001 and higher.
309) Serial No. 30007 and higher.
310) Serial No. 30010 and higher.
311) Serial No. 30013 and higher.

----- CPU-145 BOARD -----

307) RB101 1-235-337-11 s RESISTOR BLOCK 22Kx8
311) RB101 1-253-194-00 s RESISTOR BLOCK 4.7Kx8

----- IF-414 BOARD -----

307) RB101 1-235-337-11 s RESISTOR BLOCK 22Kx8
311) RB101 1-253-194-00 s RESISTOR BLOCK 4.7Kx8

----- MOA-7A/B BOARD -----

307) C826 NOT IN USE.
309) C826 1-161-485-00 s CERAMIC 0.1uF 50V

307) R113 1-215-456-00 s METAL 30K 1% 1/6W
309) R113 1-215-452-00 s METAL 20K 1% 1/6W

307) R114 1-215-456-00 s METAL 30K 1% 1/6W
309) R114 1-215-452-00 s METAL 20K 1% 1/6W

307) R115 1-215-456-00 s METAL 30K 1% 1/6W
309) R115 1-215-452-00 s METAL 20K 1% 1/6W

307) R117 1-215-456-00 s METAL 30K 1% 1/6W
309) R117 1-215-452-00 s METAL 20K 1% 1/6W

307) R119 1-215-456-00 s METAL 30K 1% 1/6W
309) R119 1-215-452-00 s METAL 20K 1% 1/6W

307) R120 1-215-456-00 s METAL 30K 1% 1/6W
309) R120 1-215-452-00 s METAL 20K 1% 1/6W

307) R121 1-215-456-00 s METAL 30K 1% 1/6W
309) R121 1-215-452-00 s METAL 20K 1% 1/6W

307) R123 1-215-456-00 s METAL 30K 1% 1/6W
309) R123 1-215-452-00 s METAL 20K 1% 1/6W

307) R213 1-215-456-00 s METAL 30K 1% 1/6W
309) R213 1-215-452-00 s METAL 20K 1% 1/6W

(MOA-7 BOARD/CONSOLE)

307) R214 1-215-456-00 s METAL 30K 1% 1/6W
309) R214 1-215-452-00 s METAL 20K 1% 1/6W

307) R216 1-215-456-00 s METAL 30K 1% 1/6W
309) R216 1-215-452-00 s METAL 20K 1% 1/6W

307) R218 1-215-456-00 s METAL 30K 1% 1/6W
309) R218 1-215-452-00 s METAL 20K 1% 1/6W

307) R219 1-215-456-00 s METAL 30K 1% 1/6W
309) R219 1-215-452-00 s METAL 20K 1% 1/6W

307) R221 1-215-456-00 s METAL 30K 1% 1/6W
309) R221 1-215-452-00 s METAL 20K 1% 1/6W

307) R401 1-215-456-00 s METAL 30K 1% 1/6W
309) R401 1-215-452-00 s METAL 20K 1% 1/6W

307) R402 1-215-456-00 s METAL 30K 1% 1/6W
309) R402 1-215-452-00 s METAL 20K 1% 1/6W

307) R403 1-215-445-00 s METAL 10K 1% 1/6W
309) R403 1-215-441-00 s METAL 6.8K 1% 1/6W

307) R405 1-215-456-00 s METAL 30K 1% 1/6W
309) R405 1-215-452-00 s METAL 20K 1% 1/6W

307) R409 1-215-456-00 s METAL 30K 1% 1/6W
309) R409 1-215-452-00 s METAL 20K 1% 1/6W

307) R410 1-215-456-00 s METAL 30K 1% 1/6W
309) R410 1-215-452-00 s METAL 20K 1% 1/6W

307) R411 1-215-445-00 s METAL 10K 1% 1/6W
309) R411 1-215-441-00 s METAL 6.8K 1% 1/6W

307) R413 1-215-456-00 s METAL 30K 1% 1/6W
309) R413 1-215-452-00 s METAL 20K 1% 1/6W

307) R714 1-215-433-00 s METAL 3.3K 1% 1/6W
309) R714 1-215-445-00 s METAL 10K 1% 1/6W

307) R717 1-215-433-00 s METAL 3.3K 1% 1/6W
309) R717 1-215-445-00 s METAL 10K 1% 1/6W
310) R717 1-215-438-00 s METAL 5.1K 1% 1/4W

307) R820 NOT IN USE.
309) R820 1-247-903-00 s CARBON 1M 5% 1/4W

----- PS-312 BOARD -----

307) D901 8-719-901-18 s DIODE ESAD83-004
310) D901 8-719-033-57 s DIODE ESAD83-006

----- CN-837 BOARD -----

307) C124 1-164-159-11 s CAP, CERAMIC 0.1uF 50V
309) C124 DELETED.

307) C125 1-164-159-11 s CAP, CERAMIC 0.1uF 50V
309) C125 DELETED.

CPU-164 BOARD

307) D725 NOT IN USE.
311) D725 8-719-911-19 s DIODE,ISS119

307) R636 NOT IN USE.
311) R636 1-249-417-11 s CARBON 1.0K 5% 1/4W

307) RB4 1-235-195-00 s RESISTOR BLOCK 10Kx8
311) RB4 1-235-194-00 s RESISTOR BLOCK 4.7Kx8

307) RB101 1-235-337-11 s RESISTOR BLOCK 22Kx8
311) RB101 1-253-194-00 s RESISTOR BLOCK 4.7Kx8

307) RB304 1-235-195-00 s RESISTOR BLOCK 10Kx8
311) RB304 1-235-194-00 s RESISTOR BLOCK 4.7Kx8

MB-481 BOARD

307) R1 1-260-078-11 s CARBON 18 5% 1/2W
311) R1 1-215-860-11 s METAL 33 5% 1W

(FOR DMBK-4012)

307) Serial No. 10001 and higher.
309) Serial No. 10016 and higher.
310) Serial No. 10026 and higher.
311) Serial No. 10036 and higher.

AD-100 BOARD

307) C391 NOT IN USE.
309) C391 1-164-182-11 s CERAMIC,CHIP 0.0033uF 10% 100V

307) C392 NOT IN USE.
309) C392 1-164-182-11 s CERAMIC,CHIP 0.0033uF 10% 100V

307) C393 NOT IN USE.
309) C393 1-164-182-11 s CERAMIC,CHIP 0.0033uF 10% 100V

307) C413 1-124-903-11 s ELECT 1uF 20% 50V
311) C413 1-126-964-11 s ELECT 10uF 20% 50V

307) C591 NOT IN USE.
309) C591 1-164-182-11 s CERAMIC,CHIP 0.0033uF 10% 100V

307) C592 NOT IN USE.
309) C592 1-164-182-11 s CERAMIC,CHIP 0.0033uF 10% 100V

307) C593 NOT IN USE.
309) C593 1-164-182-11 s CERAMIC,CHIP 0.0033uF 10% 100V

307) C605 1-124-903-11 s ELECT 1uF 20% 50V
311) C605 1-126-923-11 s ELECT 220uF 20% 10V

307) CN712 1-560-780-11 s HEADER (RIGHT ANGLE TYPE) 10P
310) CN712 1-764-825-11 s HEADER (RIGHT ANGLE TYPE) 10P

307) R122 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W
309) R122 1-216-650-11 s METAL, CHIP 910 0.5% 1/10W

307) R222 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W
309) R222 1-216-650-11 s METAL, CHIP 910 0.5% 1/10W

307) R323 1-215-445-00 s METAL 10K 1% 1/6W
309) R323 1-215-439-00 s METAL 5.6K 1% 1/6W

307) R325 1-215-445-00 s METAL 10K 1% 1/6W
309) R325 1-215-437-00 s METAL 4.7K 1% 1/6W

(AD-100 BOARD/DMBK-4012)

307) R373 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W
311) R373 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W

307) R374 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
311) R374 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W

307) R523 1-215-445-00 s METAL 10K 1% 1/6W
309) R523 1-215-439-00 s METAL 5.6K 1% 1/6W

307) R525 1-215-445-00 s METAL 10K 1% 1/6W
309) R525 1-215-437-00 s METAL 4.7K 1% 1/6W

307) R573 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W
311) R573 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W

307) R574 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
311) R574 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W

VR-163 BOARD

307) R117 1-215-377-00 s METAL 15 1% 1/6W
309) R117 1-249-392-11 s CARBON 8.2 5% 1/4W

307) RV1 NOT IN USE.
310) RV1 1-223-614-11 s RES,VAR, CARBON 10K/10K

307) RV2 NOT IN USE.
310) RV2 1-223-614-11 s RES,VAR, CARBON 10K/10K

307) S101 NOT IN USE.
310) S101 1-692-902-11 s SWITCH, ROTARY

307) S102 NOT IN USE.
310) S102 1-692-902-11 s SWITCH, ROTARY

SONY

DIGITAL AUDIO MIXER

DMX-B4008 DMX-B4016

SUPPLEMENT-2 (FOR MAINTENANCE Part 2)

内容

資料の追加及び差し換え

下記ページをMAINTENANCE MANUAL Part 2の該当ページ
に追加または差し換えて下さい。

目次(差し換え)

第2章 電気調整

2-1(J)～2-24(J) (追加)

対象マニュアル

DMX-B4008/DMX-B4016

MAINTENANCE MANUAL Part2 1st Edition

注意

SUPPLEMENT-1はMAINTENANCE MANUAL Part1用に
発行されています。

SUBJECT

Addition and Replacement of Documents

Please replace the following pages with the
corresponding page of MAINTENANCE MANUAL
Part 2.

TABLE OF CONTENTS(Replacement)

SEC.2 ELECTRICAL ADJUSTMENTS

Pages 2-1(E) to 2-23(E) (Addition)

APPLICABLE MANUAL

DMX-B4008/DMX-B4016

MAINTENANCE MANUAL Part2 1st Edition

NOTE

Supplement-1 is supplied with MAINTENANCE
MANUAL Part1.

MAINTENANCE MANUAL Part 2

DMX-B4008 (J,UC,EK,和,英)

DMX-B4016 (J,UC,EK,和,英)

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Broadcast Products Company

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第1章 サービスインフォメーション

1-1. スイッチングレギュレーターの交換

DMX-B4008/B4016は、電源をリダンダント化できるように
なっている。

したがって、CPUが使用している5V系の下記のスイッチン
グレギュレーターを交換した際は、機器に合わせて出力電
圧調整を行う必要がある。

また、プロセッサの5V系電源を交換後は、PLL調整を行
う必要がある。

5V系電源

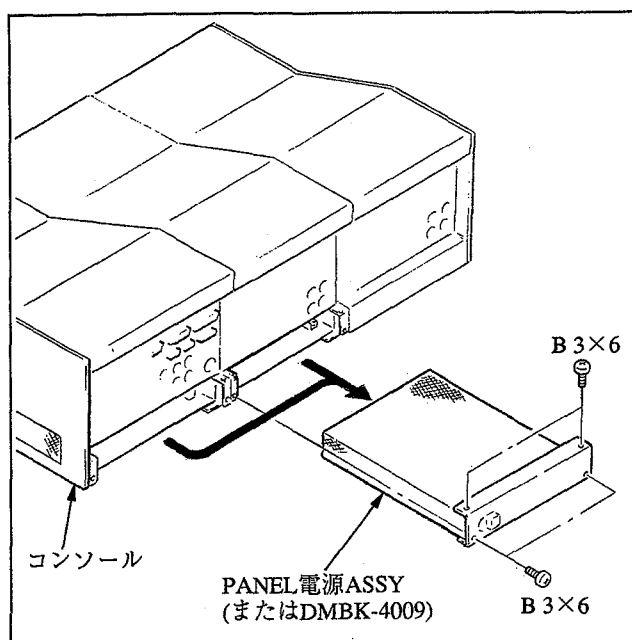
調整の必要なスイッチング レギュレータ (型名)	ソニー部品番号	使用先
FAW05-20R	1-413-915-11	・ PANEL 電源 ASSY (DMX-B4008, コンソール) ・ PANEL POWER ASSY (DMX-B4016, コンソール) ・ BACK UP POWER SUPPLY (DMBK-4009, OPTION)
MRW-171-1	1-413-955-11	・ RACK 電源 ASSY (DMX-B4008, プロセッサ) ・ BACK UP POWER SUPPLY (DMBK-4007, OPTION)
FAW05-30R	1-413-956-11	・ RACK POWER ASSY (DMX-B4016, プロセッサ) ・ BACK UP POWER SUPPLY (DMBK-4008, OPTION)

1-1-1. DMX-B4008/B4016コンソール

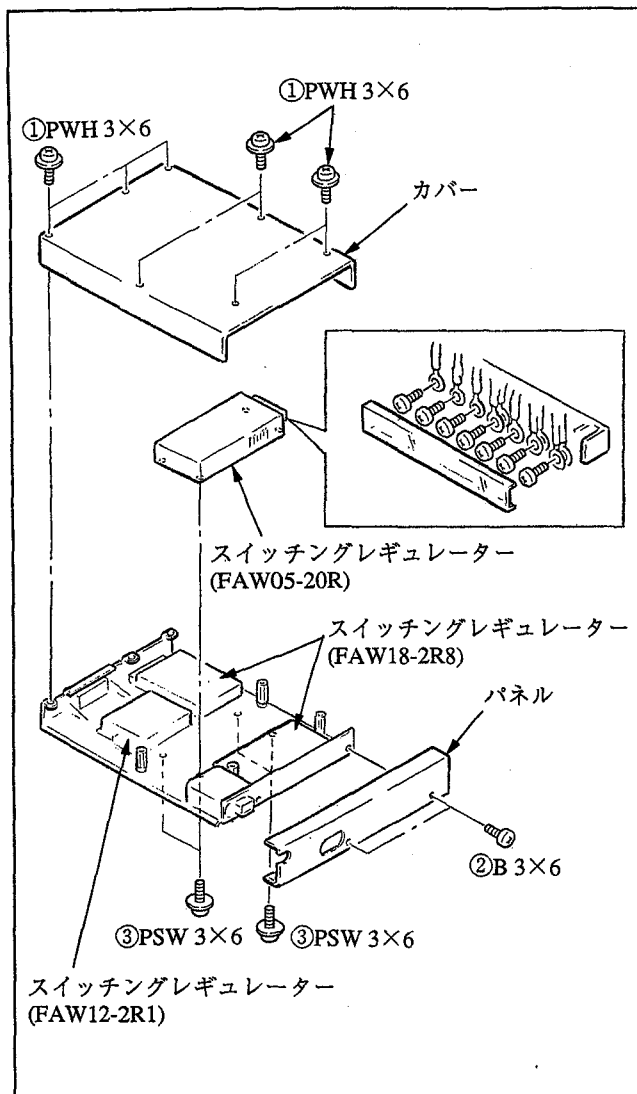
注意: 交換はコンソールの電源をOFFにし、電源コードを
抜いて行う。

手順

- (1) ネジ (B 3×6, 4本) を外し、PANEL電源ASSY (または
DMBK-4009) を矢印方向に外す。



- (2) PANEL電源ASSY (またはDMBK-4009) のカバー (①ネジPWH 3×6, 7本) およびパネル (②ネジB 3×6, 2本) を外す。
- (3) 交換するスイッチングレギュレーターに接続されているハーネスをすべて外す。
- (4) スwitchングレギュレーター (③ネジPSW 3×6, 4本) を外す。(FAW05-20Rの場合)



- (5) 新しいスイッチングレギュレーターをPANEL電源ASSY (またはDMBK-4009) に取り付ける。
取り付け後、下記のスイッチングレギュレーターを交換した際は、以下の出力電圧調整を行う。

スイッチングレギュレーター:

FAW05-20R (ソニー部品番号1-413-915-11)

出力電圧調整

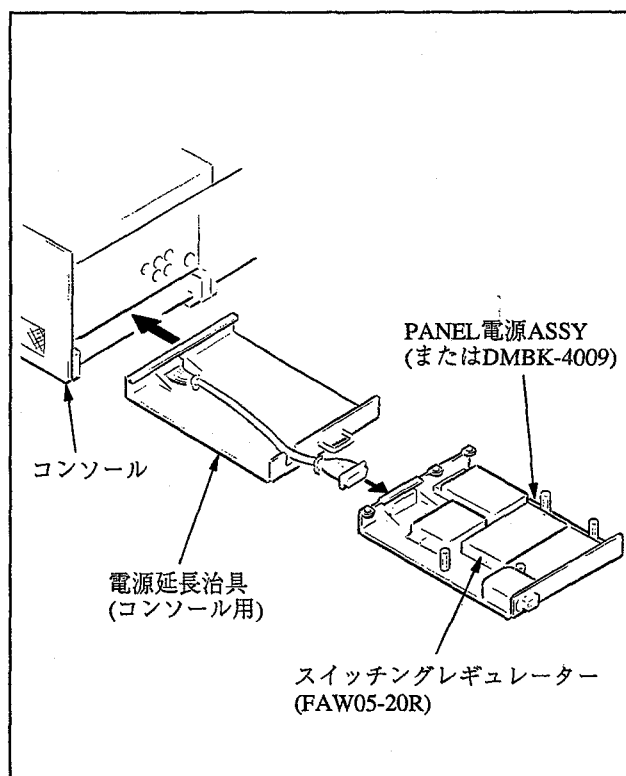
使用機器: テスター

使用治具: 電源延長治具 (コンソール用)

ソニー部品番号J-6401-170-A

手順

- ① 電源延長治具 (コンソール用) をコンソールに装着し、PANEL電源ASSY (またはDMBK-4009) を電源延長治具に接続する。



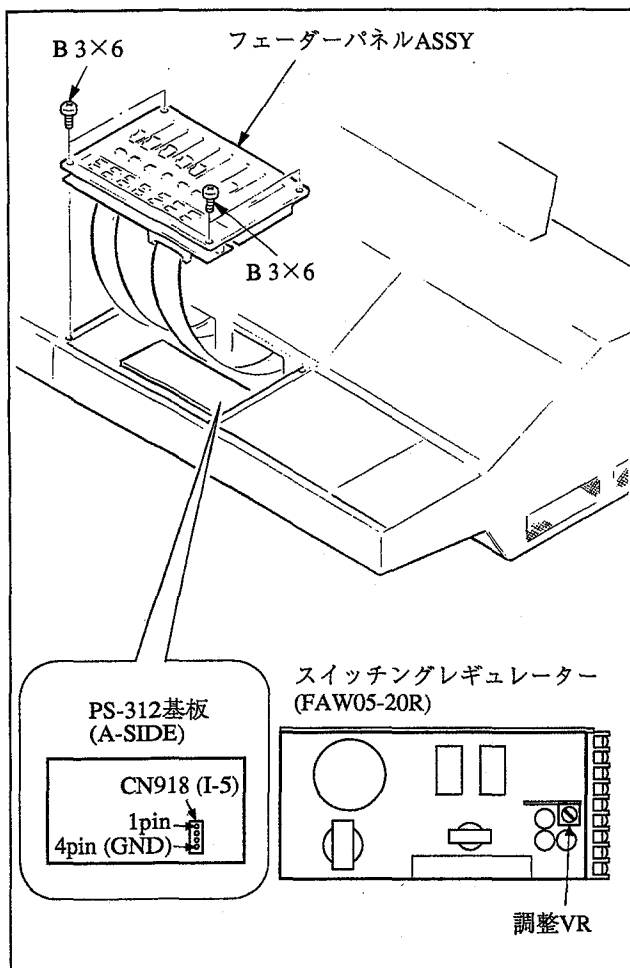
- ② コンソールの電源をONにし、テスターを使用して下図の箇所の出力電圧が下記規格を満足するように調整する。

規格: PS-312基板のCN918の1ピンと4ピン間の

電圧 = $+5.0 \pm 0.1$ Vdc

コンソールのフェーダーパネルASSYのネジ (B 3×6)
4本を外して、フェーダーパネルを開く。

調整箇所: 調整VR/スイッチングレギュレーター
(FAW05-20R)



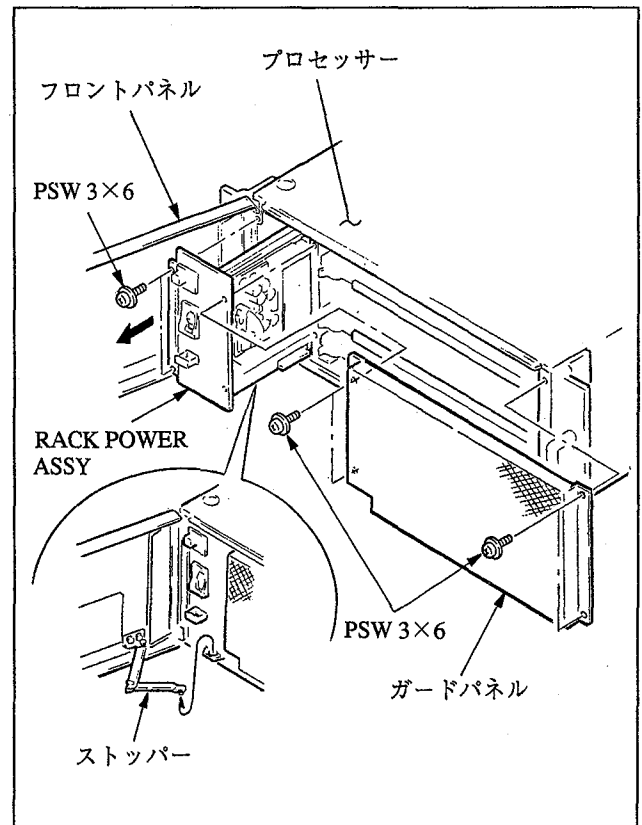
- (6) 調整後、コンソールの電源をOFFにして、PANEL電源ASSY (またはDMBK-4009) にカバーを取り付ける。
(7) 電源延長治具 (コンソール用) をコンソールから外し、PANEL電源ASSY (またはDMBK-4009) をコンソールに手順 (1) ~ (4) の逆の手順で取り付ける。

1-1-2. DMX-B4008プロセッサ

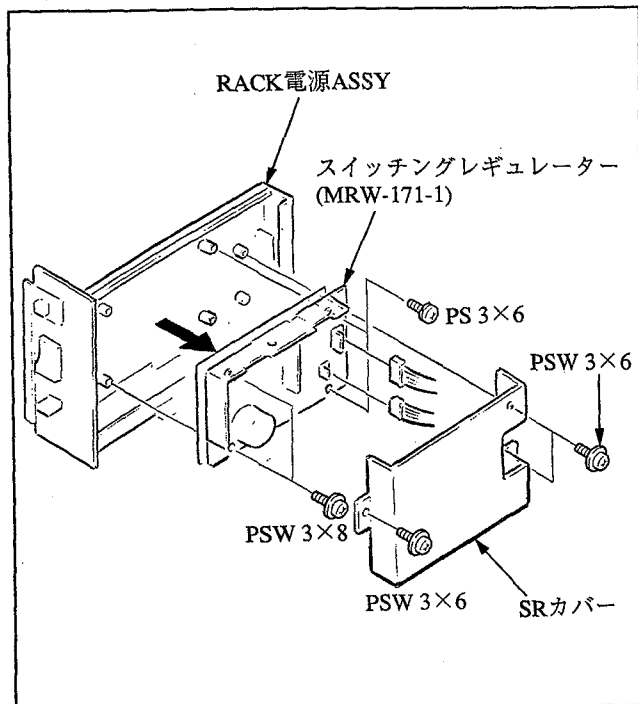
注意: 交換はプロセッサの電源をOFFにし、電源コードを抜いて行う。

手順

- (1) プロセッサのフロントパネルを開き、ストッパーを外す。
(2) ネジ (PSW 3×6, 4本) を外し、ガードパネルを外す。
(3) ネジ (PSW 3×6, 2本) を外し、RACK電源ASSYを矢印方向に引き抜く。



- (4) ネジ (PSW 3×6, 3本) を外し、SRカバーを外す。
- (5) スイッチングレギュレーターのコネクター (CN1, CN2) より、ハーネスを外す。
- (6) ネジ (PSW 3×8, 2本/PS 3×6, 2本) を外し、スイッチングレギュレーター (MRW-171-1) を矢印方向に外す。



- (7) 新しいスイッチングレギュレーター (MRW-171-1) を RACK電源ASSYに取り付ける。取り付け後、以下の出力電圧調整を行う。

出力電圧調整

使用機器: テスター

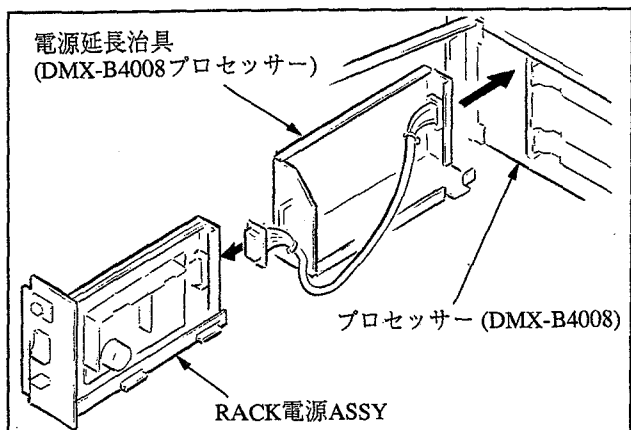
使用治具: 電源延長治具 (DMX-B4008プロセッサ用)

ソニー部品番号J-6401-160-A

延長基板EX-360: ソニー部品番号J-6400-050-A

手順

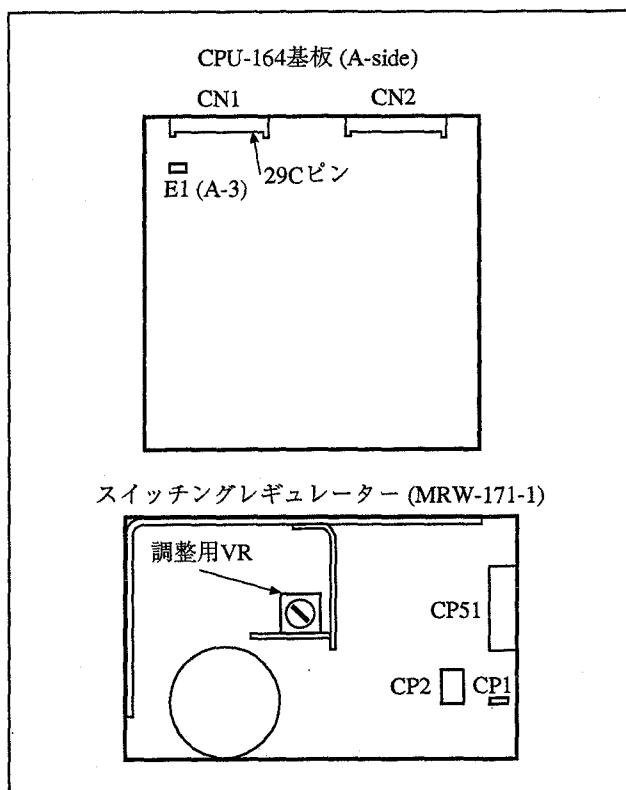
- ① 電源延長治具 (DMX-B4008プロセッサ用) をプロセッサに装着し、RACK電源ASSYを電源延長治具 (DMX-B4008プロセッサ用) に接続する。



- ② CPU-164基板 (プロセッサ) を延長基板EX-360で延長する。
- ③ プロセッサの電源をONにし、テスターを使用してCPU-164基板の下記箇所の出力電圧が下記規格を満足するように調整する。

規格: CPU-164基板のCN1コネクターの 29Cピンと E1 (GND) 間の電圧 = $+5.0 \pm 0.1$ Vdc

調整箇所: 調整VR/スイッチングレギュレーター (MRW-171-1)



- (8) 調整後、プロセッサの電源をOFFにして、電源延長治具 (DMX-B4008プロセッサ用) および延長基板EX-360を外す。
- (9) RACK電源ASSY (スイッチングレギュレータにSRカバーを取り付け後) およびCPU-164基板をプロセッサに装着する。装着後、“2-3. PLL調整”を必ず行う。

1-1-3. BACK UP POWER SUPPLY DMBK-4007 (OPTION)

DMBK-4007で使用されているスイッチングレギュレーター (MRW-171-1) を交換した際は、上記 “1-1-2. DMX-B4008 プロセッサの手順 (7)” の出力電圧調整を行う。

調整は、DMBK-4007をDMX-B4008に接続して行う。

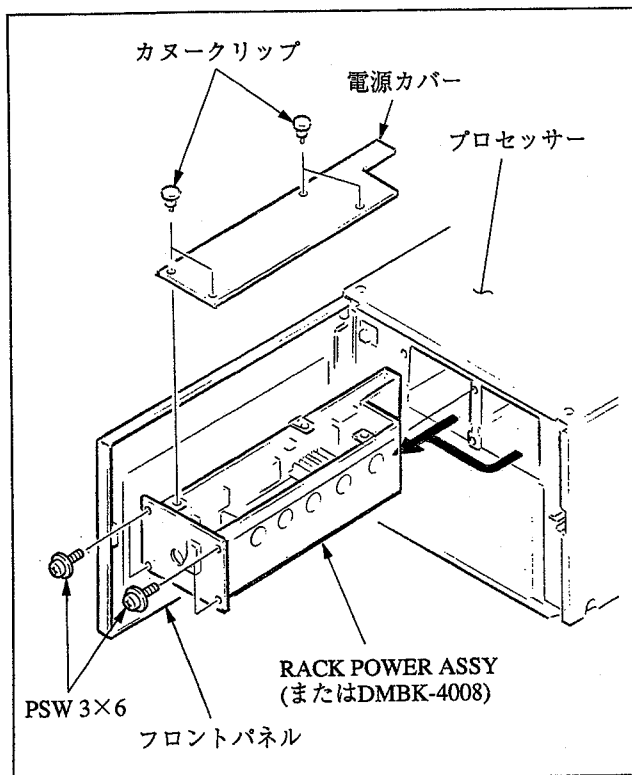
調整後、“2-3. PLL調整”を必ず行う。

1-1-4. DMX-B4016プロセッサ (RACK POWER ASSY またはBACK UP POWER SUPPLY DMBK-4008 (OPTION))

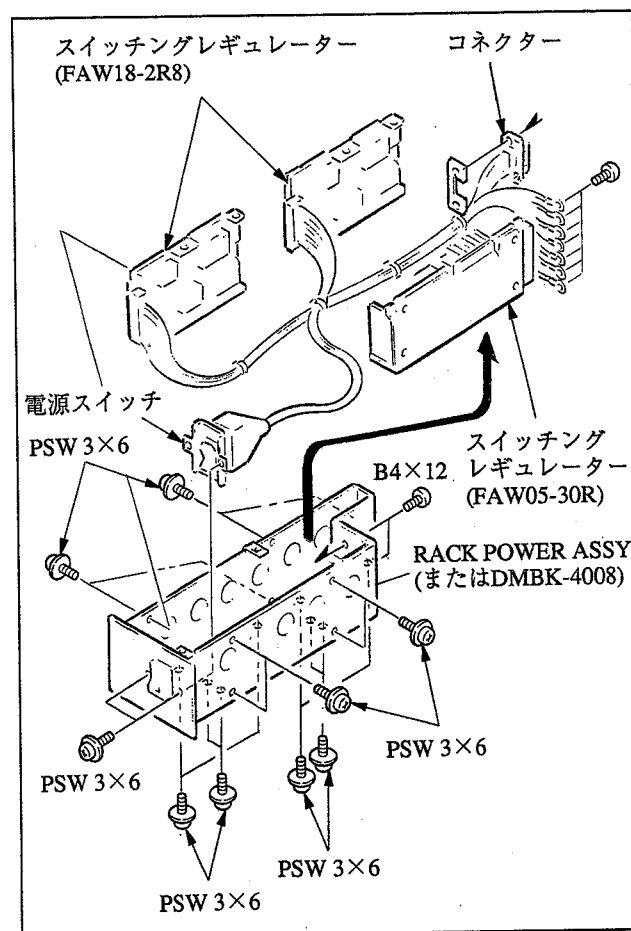
注意: 交換はプロセッサの電源をOFFにし、電源コードを抜いて行う。

手順

- (1) プロセッサのフロントパネルを開き、ストッパーを外す。
- (2) ネジ (PSW 3×6, 4本) を外し、RACK POWER ASSY (またはDMBK-4008) を矢印方向に引き抜く。
- (3) RACK POWER ASSY (またはDMBK-4008) の電源カバー (カヌークリップ4本) を外す。



- (4) ネジ (PWH 3×6, 18本) を外し、RACK POWER ASSY (またはDMBK-4008) より電源スイッチおよびスイッチングレギュレーター (3個) を外す。
- (5) ネジ (PSW 4×8, 2本) を外し、ハーネスのコネクターを RACK POWER ASSY (またはDMBK-4008) より外す。
- (6) スwitchングレギュレーター (3個) をハーネスと一緒に RACK POWER ASSY (またはDMBK-4008) より取り出す。
- (7) 交換するスイッチングレギュレーターに接続されているハーネスをすべて外す。



- (8) 新しいスイッチングレギュレーターを手順 (4) ~ (7) の逆の手順で、RACK POWER ASSY (またはDMBK-4008) に取り付ける。
取り付け後、下記のスイッチングレギュレーターを交換した際は、以下の出力電圧調整を行う。

スイッチングレギュレーター:
FAW05-30R (ソニー部品番号1-413-956-11)

出力電圧調整

使用機器: テスター

手順

- ① プロセッサをラックより引き出す。
- ② プロセッサの天板を外す。
(MAINTENANCE MANUAL Part 1 “3-2. 外装の取り外し” 参照)
- ③ 電源カバー (カヌークリップ4個) をRACK電源ASSY (またはDMBK-4008) より外す。
- ④ プロセッサの電源をONにし、テスターを使用してMIX-16基板の下記箇所の出力電圧が下記規格を満足するように調整する。

注意: DMBK-4010またはDMBK-4011を装着したときは、DMBK-4010またはDMBK-4011のMIX-16基板を調整する。

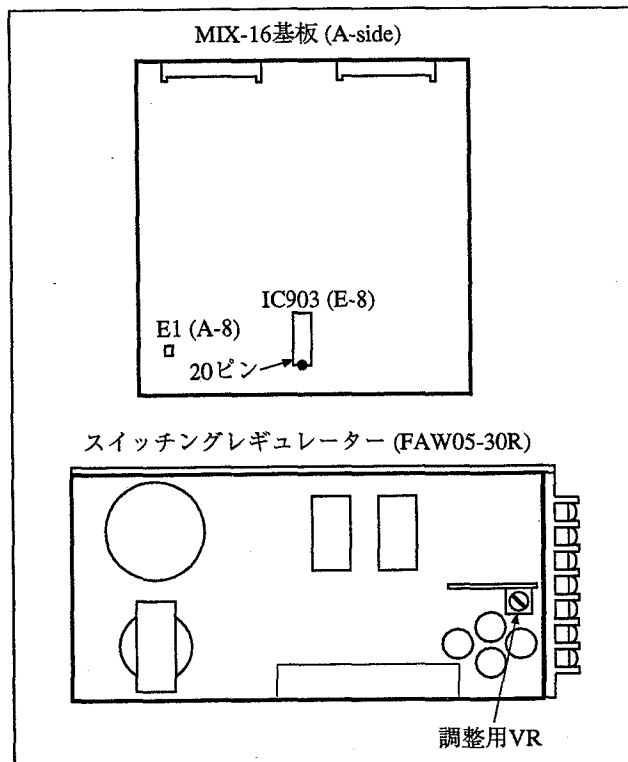
規格: MIX-16基板のIC903の20ピンと E1 (GND) 間の電圧

DMBK-4010/4011未装着時
電圧 = $+5.1 \pm \frac{1}{2}\%$ Vdc

DMBK-4010装着時
電圧 = $+4.9 \pm \frac{1}{2}\%$ Vdc

DMBK-4011装着時
電圧 = $+5.0 \pm \frac{1}{2}\%$ Vdc

調整箇所: 調整VR/スイッチングレギュレーター
(FAW05-30R)



- (9) RACK電源ASSY (またはDMBK-4008) を手順①~③の逆の手順で取り付ける。
装着後、“2-6-1. PLL調整” を必ず行う。

1-1-5. 電源ヒューズの交換について

下表のスイッチングレギュレーターには、電源ヒューズが搭載されている。電源ヒューズを交換する際はセット内の異物等、ショートの原因を取り除いてから交換する。

注意: ヒューズの交換は必ず電源をOFFにし、電源コードを抜いてから“1-1-1.~1-1-4.” 項を参照し行う。

スイッチングレギュレーター (部品番号)	使用電源ヒューズ	
	定 格	ソニー部品番号
FAW12-2R1 (1-413-918-11)	250V 2.5A	1-532-826-11
FAW18-2R8 (1-413-918-11)	250V 3A	Pending
FAW05-20R (1-413-915-11)	250V 5A	Pending
MRW-171-1 (1-413-955-11)	250V 3.15A	1-576-133-11
FAW05-30R (1-413-956-11)	250V 6.3A	Pending

1-2. 補修用部品注意事項

1-2-1. 補修用部品注意事項

(1) 安全重要部品

回路図、分解図、電気部品表中で△印付きの部品は、安全性を維持するために重要な部品である。従ってこれらの部品を交換するときには、必ず指定の部品と交換すること。

(2) 部品の共通化

ソニーから供給される部品はセットに実装されているものと異なることがある。

これは部品の共通化、改良等によるものである。

分解図や電気部品表には現時点での共通化された部品が記載されている。

(3) 部品の在庫

部品表のSP (Supply code) 欄に○で示される部品は交換頻度が低い部品で、在庫していないことがあり、納期が長くなることがある。

(4) コンデンサ、抵抗の単位

回路図、分解図、電気部品表中、特に明記したものを除き、下記の単位は省略されることがある。

コンデンサ : μF

抵抗 : Ω

1-2-2. チップ部品の交換方法

用意する工具

はんだコテ : 20 W程度。できれば、コテの温度を $270 \pm 10^\circ C$ にコントロールできる温度コントローラを使用すること。

編組線 : SOLDER TAULまたは同等品
ソニー部品番号 7-641-300-81

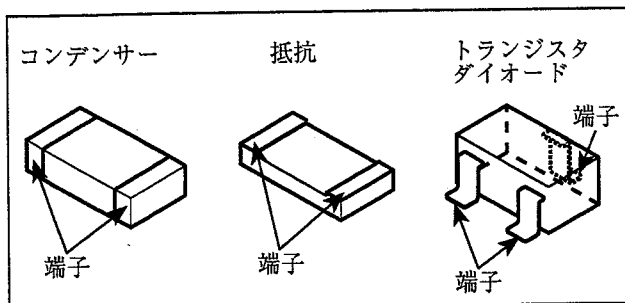
はんだ : 直径0.6 mmが望ましい。

ピンセット

はんだ付条件

コテ温度 : $270 \pm 10^\circ C$

はんだ付け時間 : 1端子について2秒以内にす。



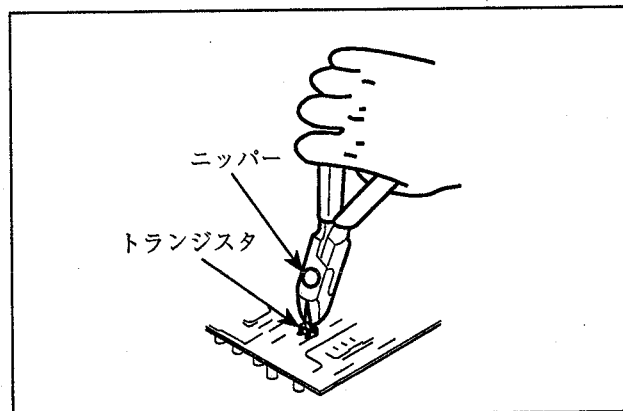
•抵抗、コンデンサの交換

- (1) はんだコテの先をチップ部品の上に載せてチップ部品を加熱し、はんだが溶けた状態で横にずらす。
- (2) 取り外した部分のパターンはがれ、隣接はんだ付け部のダメージ、ブリッジなどがないことを確認する。
- (3) パターンにうすく予備はんだをする。
- (4) 新しいチップ部分をパターンに載せ、両端をはんだ付けする。

注意：取り外したチップ部品は再び使わないこと。

•トランジスタ、ダイオードの交換

- (1) ニッパにて部品の端子を切断する。
- (2) 切断した端子をはんだコテで取り除く。
- (3) 取り除いた部分のパターンはがれ、隣接はんだ付け部のダメージ、ブリッジなどがないことを確認する。
- (4) パターンにうすく予備はんだをする。
- (5) 新しいチップ部品をパターンに載せ、端子をはんだ付けする。



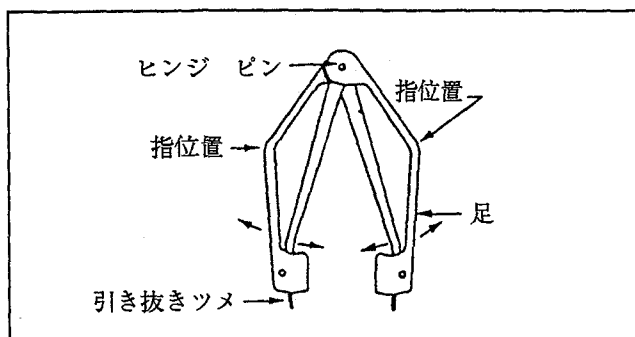
•ICの交換

- (1) 編組線を使って端子のはんだを取り除く。
- (2) はんだコテで加熱しながら、ピンセットなどを使って端子を1本ずつパターンから外し、ICを取り除く。
- (3) 取り除いた部分のパターンはがれ、隣接はんだ付け部のダメージ、ブリッジなどがないことを確認する。
- (4) パターンにうすく予備はんだをする。
- (5) 新しいチップ部品をパターンに載せ、端子をはんだ付けする。

1-2-3. PLCC ICの取り外し方法

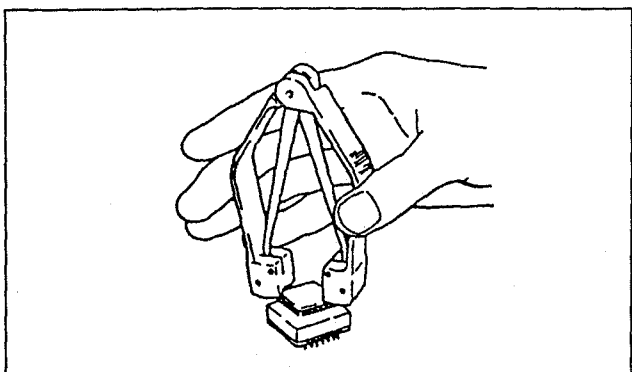
ICソケットに差し込まれたPLCCタイプのICを取り外す場合は、下記の工具を使用することを推奨する。20～124ピンまでのピン数のICに利用できる。

PLCCソケット用引き抜き工具
ソニー部品番号J-6035-070-A

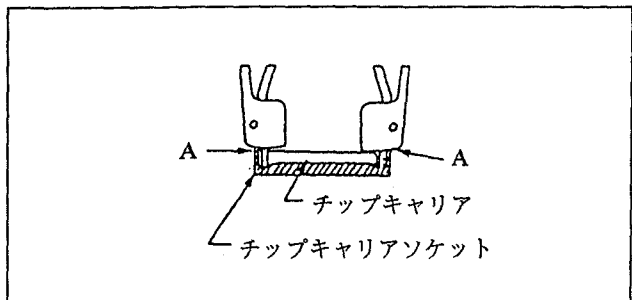


注意: ・引き抜き工具でICチップを上方に引っ張らないこと。
・必要以上の力で工具をはさみ込まないこと。

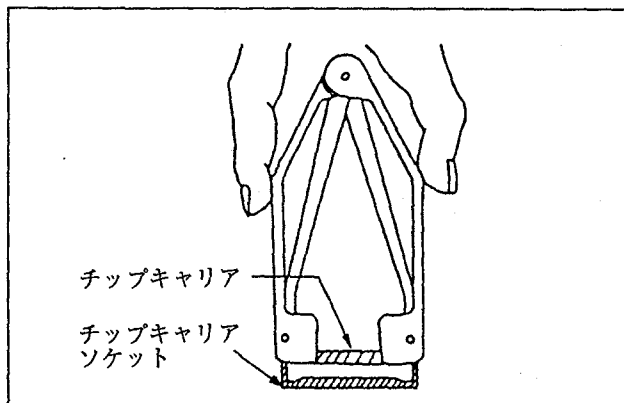
1. 工具の足をソケットのスロットの長さに合わせる。



2. 工具の先端の引き抜きツメをICソケットのスロットに差し込み、引き抜き工具の図に示すAの部分がソケットにあたるまで押し込む。



3. 図のように引き抜き工具のリブの部分を持つ。ソケットには下方向に小さな力がかかる。



4. 引き抜き工具をはさみ込む。これにより、工具の足が伸びると同時に、工具の先端のツメがICチップをつかみ、上方向に引き抜く。
5. 引き抜いた後、力をゆるめ、ICチップを引き抜き工具から外す。

1-2-4. TIME KEEPER RAMの交換方法

DMX-B4008/B4016およびDMBK-4001は、セットアップデータ保存用としてリチウム電池内蔵のTIME KEEPER RAM (DS1634-150) を使用している。

機器名	使用先
DMX-B4008	IC204, CPU-145基板 (コンソール)
DMX-B4016	IC204, CPU-145A基板 (コンソール)
DMBK-4001	IC202, CPU-146基板 (コントロールパネルASSY)

このリチウム電池の寿命が切れると、カスタマー毎のセットアップ内容が記憶できなくなる。そのため、約5年毎にこのICを交換する必要がある。

用意する部品

TIME KEEPER RAM DS1643-150: ソニー部品番号8-759-097-08

交換手順

DS1634-150はICソケットにマウントされているので、ピンセット等でICソケットより外し、交換する。

交換後の処理

- (1) DMX-B4008/B4016のDS1643-150 (CPU-145/145A基板) を交換した後は、コンソールの電源をONにする前に以下の作業を行う。
CPU-145 (A) 基板のS103ビットスイッチを下記のように設定する。
S103-1スイッチ: ON
S103-4スイッチ: ON
上記スイッチ設定後、コンソールの電源をONにする。
- (2) CPUが立ち上がったら (1) でONにしたビットスイッチをOFFにし、コンソールの電源をOFFにする。
- (3) コンソールの電源を再度ONにし、カスタマー毎のセットアップを行う。

第2章 電気調整

ここでは、保守および修理の際に必要な下記基板の電気調整について述べる。

基板名	内容	使用先
MOA-7A/7B	2-2-1. モニター出力レベル調整 2-2-2. サラウンドモニター出力レベル調整 2-2-3. HEADPHONES出力レベル調整 2-2-4. アナログメーター出力レベル調整 2-2-5. コミュニケーションレベル調整	DMX-B4008/B4016コンソール
CPU-164	2-3. PLL調整	DMX-B4008プロセッサー
DIO-26	2-4. DAコンバーターレベル調整 1	DMX-B4008プロセッサー
CN-837	2-5. DAコンバーターレベル調整 2	DMX-B4008プロセッサー
CPU-144	2-6-1. PLL調整 2-6-2. DAコンバーターレベル調整1	DMX-B4016プロセッサー
AD-100 (DMBK-4012装着時)	2-7-1. MICアンプ調整 2-7-2. LINEアンプ調整 2-7-3. INSERTION SEND/RETURNアンプ調整 2-7-4. DAコンバーターレベル調整	DMX-B4008/B4016コンソール

2-1. 準備

2-1-1. 使用機器、治工具

使用機器

名称	仕様 (minimum)	機器名
周波数カウンター	有効桁数: 6桁以上	HEWLETT PACKARD HP5315 または相当品
オーディオ アナライザー	・ オシレーター 周波数レンジ: 10 Hz to 100 kHz 出力レベル: -70 to +30 dBs バランス型 ・ レベルメーター 測定レンジ: -70 to +30 dBs バランス型	SOUND TECHNOLOGY ST-1710A または 相当品

治工具

名称	ソニー部品番号	備考
延長基板 EX-360	J-6400-050-A	DMX-B4008プロセッサー用
延長基板 EX-455	J-6401-190-A	DMX-B4016プロセッサー用
Dsub-XLR変換ケーブル	J-6401-180-A	D/Aコンバーターレベル調整用
ECD-3C, ECD-10CまたはECD-30C	別売品	デジタルオーディオ (AES/EBU) 接続用
調整用ドライバー (2mm)	7-770-731-03	

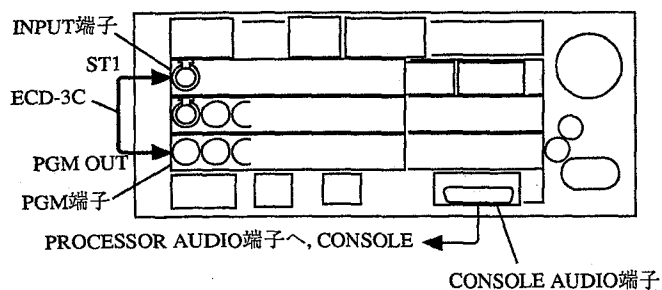
2-1-2. 初期設定

本調整は、特に指定のない限り、下記の設定で行う。

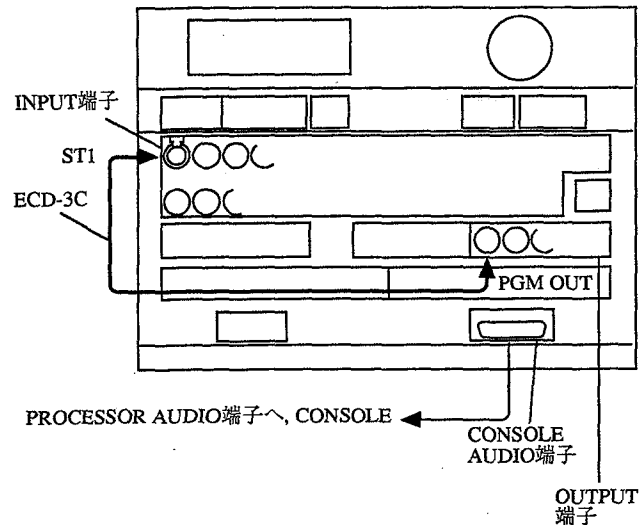
1. 接続

調整時は、プロセッサリアパネルのPGM OUTコネクタとST1コネクタ間を接続ケーブル (デジタルオーディオ (AES/EBU) 用) ECD-3Cで接続する。

DMX-B4008



DMX-B4016



2. スイッチ、コントロールの初期設定

DMX-B4008/B4016メーターユニット

スイッチ

AUTO: OFF
HOLD: OFF

DMX-B4008/B4016コンソール

チャンネル操作パネル (各チャンネルブロック)

スイッチ

ACCESS: OFF
MUTE: OFF } (どちらか1つが点灯)
PFL: OFF
START: OFF
STOP: OFF

コントロール

チャンネルフェーダー: セットアップ画面の
DIAGNOSTICS画面を開いて、FADER/
SWITCH動作チェックモードを選択して、チ
ャンネルフェーダーのレベルを"B1"に設定す
る。設定方法については、OPERATION
MANUAL "第3章 操作"を参照。

セットアップ (タッチ) パネル

下記セットアップ画面を選択し、以下のように設定する。

下記セットアップ画面以外の設定は任意とする。

設定方法については、OPERATION MANUAL "第3章 操作"
を参照。

SCENE画面

シーン00を設定 (再現: SET) する。

INSERTION画面

INSERTION ON/OFF: OFF

MONITOR画面

MODE: ST (CONTROL ROOM, STUDIO部共)
SOURCE: PGM (CONTROL ROOM, STUDIO部共)

MT (METER)/OSC/TB画面

METER SELECT (DMX-B4016のみ): PGM, MIX1, AUX1
OSC: OFF
TB/ID: OFF

マスター操作 (モニター) パネル

COMMUNICATION部

SP LVLコントロール: MAX (時計方向に回しきる)
TB LVLコントロール: MAX
SEND1、2、3スイッチ: OFF

STUDIO部

STUDIOモニターコントロール:

MAX (時計方向に回しきる)
CUEスイッチ: OFF
CUTスイッチ: OFF

CONTROL ROOM部

CONTROL ROOMモニターコントロール:

MAX (時計方向に回しきる)
ALTスイッチ: OFF
CUTスイッチ: OFF

HEADPHONES部

HEADPHONESコントロール:

MAX (時計方向に回しきる)
マスターフェーダー: 0位置 (MAX)

コンソール内の基板上スイッチ、ジャンパーの設定

コンソールの下記基板上のスイッチ、ジャンパー設定は、現状のシステム設定とする。

- ・ CPU-145, MOA-7A/B, IF-414, KY-225基板

DMX-B4008プロセッサー

プロセッサーの下記基板上のスイッチ、ジャンパー設定は、現状のシステム設定とする。

- ・ CPU-164, DIO-26, MIX-15基板
ただし、入力信号のディエンファシス処理をすべて AUTOモード (MIX-15基板のS2-1 to 8ビットスイッチをすべてOFFに設定) に設定する。

DMX-B4016プロセッサー

プロセッサーの下記基板のスイッチ、ジャンパー設定は、現状のシステム設定とする。

- ・ CPU-144, IPM-48, MIX-16基板
ただし、入力信号のディエンファシス処理をすべて AUTOモード (IPM-48基板のS703-1 to 8, S704-1 to 8および S705-3 to 4 ビットスイッチをすべてOFFに設定。) に設定する。

DMBK-4001 (OPTION)

コントロールパネル

調整時のスイッチ、コントロールの設定は、なし。

CPU-146基板

スイッチ、ジャンパーの設定は現状の設定とする。

DMBK-4012 (OPTION)

HAパネル (20ビットマイク/ラインインプットモジュール)

+48Vスイッチ: OFF
LINEスイッチ: OFF
φ スwitch: OFF
INSスイッチ: OFF
MIC ONスイッチ: ON
GAINスイッチ: 30 (dB)
TRIMコントロール: センター位置

AD-100基板

基板上のスイッチ設定は現状の設定とする。

2-2. MOA-7A/7B基板調整 (DMX-B4008/B4016コンソール)

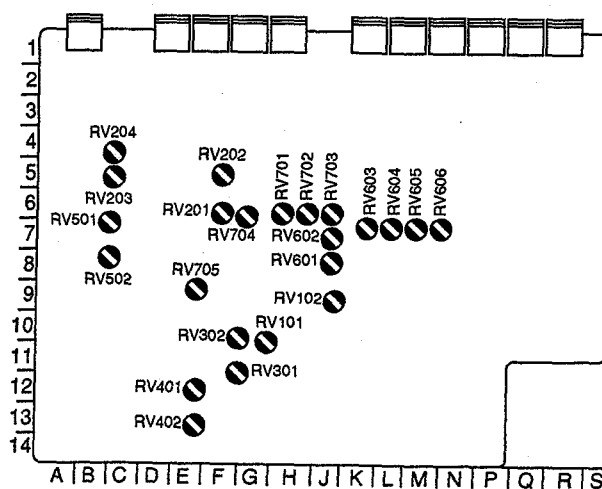
準備

タッチパネルASSY (コンソール) を外し (ハーネスは接続したままの状態)、MOA-7A/7B基板が調整できる状態にする。
(タッチパネルASSYの外し方は、MAINTENANCE MANUAL Part1の"3-7. タッチパネル/ELディスプレイの交換"参照)

使用機器

オーディオアナライザー (オーディオレベルメーター)

調整箇所



MOA-7A/7B BOARD (A-side)

2-2-1. モニター出力レベル調整

ここでは、コンソールの下記モニター出力の出力レベル調整を行う。

モニター出力

- ・ CONTROL ROOM MONITOR OUT L
- ・ CONTROL ROOM MONITOR OUT R
- ・ STUDIO MONITOR OUT SP-L
- ・ STUDIO MONITOR OUT SP-R
- ・ STUDIO MONITOR OUT HP-L
- ・ STUDIO MONITOR OUT HP-R

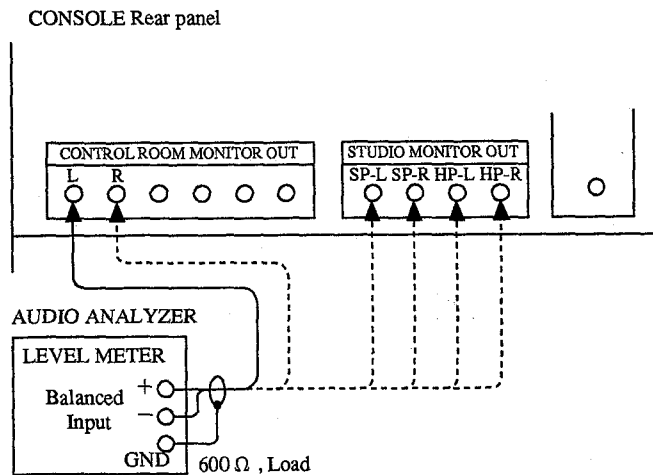
使用機器

オーディオレベルメーター (オーディオアナライザー)

スイッチ、コントロール設定

"2-1-2. 初期設定"に同じ。

接続



調整手順

- (1) セットアップ画面のMT/OSC/TB画面を開いて、OSC (内蔵オシレーターの出力) をPGM出力に設定する。
(メーターユニットのステータスインジケーターOSCが点灯)
- (2) 調整

調整項目	調整時の状態	規格	調整箇所 (MOA-7A/7B基板)
CONTROL ROOM MONITOR OUT L 出力レベル調整	オーディオレベルメーター (オーディオアナライザー) を CONTROL ROOM MONITOR OUT L コネクタに接続する。	出力レベル: +4.0 dBs ±0.1 dB	● RV101 (G, 11)
CONTROL ROOM MONITOR OUT R 出力レベル調整	オーディオレベルメーター (オーディオアナライザー) を CONTROL ROOM MONITOR OUT R コネクタに接続する。	出力レベル: +4.0 dBs ±0.1 dB	● RV102 (J, 9)
STUDIO MONITOR OUT SP-L 出力レベル調整	オーディオレベルメーター (オーディオアナライザー) を STUDIO MONITOR OUT SP-L コネクタに接続する。	出力レベル: +4.0 dBs ±0.1 dB	● RV201 (F, 6)
STUDIO MONITOR OUT SP-R 出力レベル調整	オーディオレベルメーター (オーディオアナライザー) を STUDIO MONITOR OUT SP-R コネクタに接続する。	出力レベル: +4.0 dBs ±0.1 dB	● RV202 (F, 5)
STUDIO MONITOR OUT HP-L 出力レベル調整	オーディオレベルメーター (オーディオアナライザー) を STUDIO MONITOR OUT HP-L コネクタに接続する。	出力レベル: +4.0 dBs ±0.1 dB	● RV203 (B, 4)
STUDIO MONITOR OUT HP-R 出力レベル調整	オーディオレベルメーター (オーディオアナライザー) を STUDIO MONITOR OUT HP-R コネクタに接続する。	出力レベル: +4.0 dBs ±0.1 dB	● RV204 (B, 4)

(0 dBs = 0.775 Vrms)

- (3) 調整後、OSCの設定をOFFにする。
(メーターユニットのステータスインジケーターOSCが
消灯)

2-2-2. サラウンドモニター出力レベル調整

ここでは、コンソールの下記モニター出力の出力レベル調整を行う。

モニター出力

- ・ CONTROL ROOM MONITOR OUT C
- ・ CONTROL ROOM MONITOR OUT S

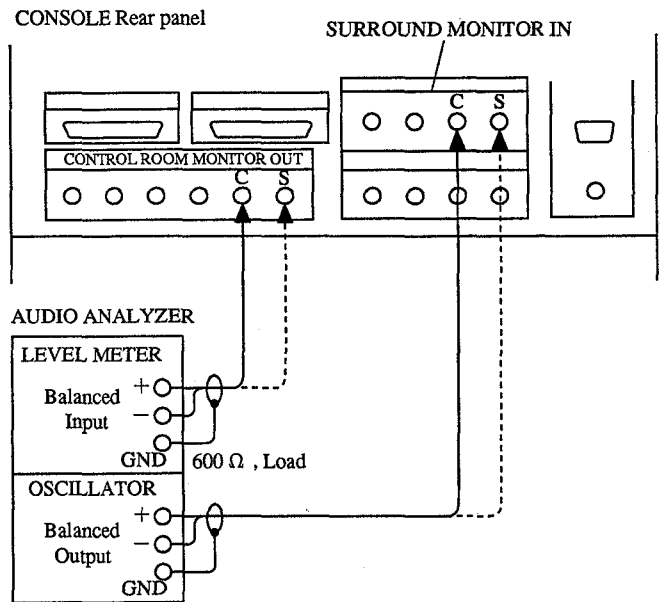
使用機器

- オーディオオシレーター (オーディオアナライザー)
- オーディオレベルメーター (オーディオアナライザー)

スイッチ、コントロール設定

"2-1-2. 初期設定"に同じ。

接続



調整手順

- (1) セットアップ画面のMONITOR画面を開いて
モニターモードのSURR (サラウンド) を選択する。
- (2) 調整

調整項目	調整時の状態	規格	調整箇所 (MOA-7A/7B基板)
CONTROL ROOM MONITOR OUT C 出力レベル調整	・ オーディオオシレーターより 1 kHz, +4 dBs (0 dBs=0.775 Vrms) の信号を SURROUND MONITOR IN C コネクターに入力する。 ・ CONTROL ROOM MONITOR OUT C コネクターにレベルメーターを接続する。	出力レベル: +4.0 dBs $\pm$ 0.1 dB	● RV301 (F, 12)
CONTROL ROOM MONITOR OUT S 出力レベル調整	・ オーディオオシレーターより 1 kHz, +4 dBs (0 dBs=0.775 Vrms) の信号を SURROUND MONITOR IN S コネクターに入力する。 ・ CONTROL ROOM MONITOR OUT S コネクターにレベルメーターを接続する。	出力レベル: +4.0 dBs $\pm$ 0.1 dB	● RV302 (F, 10)

(0 dBs = 0.775 Vrms)

- (3) 調整後、モニターモードの設定を調整前の設定にする。

2-2-3. HEADPHONES出力レベル調整

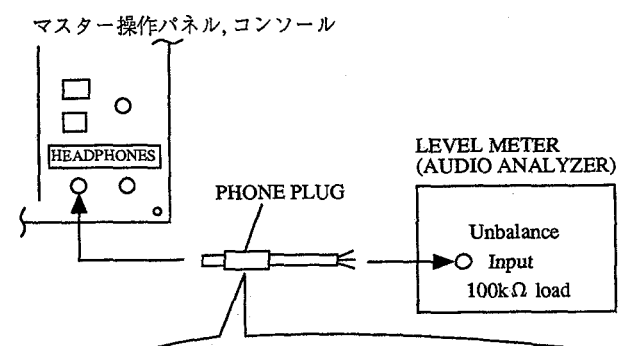
使用機器、治工具 (部品)

オーディオレベルメーター (オーディオアナライザー)
ヘッドホンプラグ: 1

スイッチ、コントロール設定

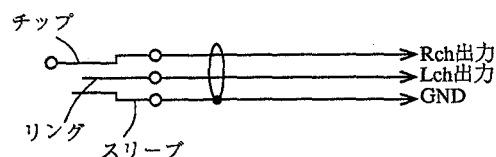
"2-1-2. 初期設定"に同じ。

接続



注意: HEADPHONES端子への接続は、ヘッドホンプラグを使用して、下記配線図に従って接続コードを作成して行う。

配線図



PHONE PLUG

調整手順

- (1) セットアップ画面のMT/OSC/TB画面を開いてOSC (内蔵オシレーターの出力) をPGM出力に設定する。(メーターユニットのステータスインジケータ-OSCが点灯)
- (2) 調整

調整項目	調整時の状態	規格	調整箇所 (MOA-7A/7B基板)
ステップ1 HEADPHONES Lch 出力レベル調整	- HEADPHONESコントロール (マスター操作パネル、コンソール) を、MAX位置にする。 - HEADPHONES端子のLch出力に、レベルメーター (オーディオアナライザー) を接続する。	HEADPHONES Lch 出力レベル: 0 dBs $\pm$ 0.1 dB	● RV401 (E, 12)
ステップ2 HEADPHONES Rch 出力レベル調整	- 下記設定以外はステップ1に同じ。 - HEADPHONES端子のRch出力に、レベルメーター (オーディオアナライザー) を接続する。	HEADPHONES Rch 出力レベル: 0 dBs $\pm$ 0.1 dB	● RV402 (E, 13)

(0 dBs = 0.775 Vrms)

- (3) 調整後、OSC設定をOFFにする。
(メーターユニットのステータスインジケータ-OSCが
消灯)

2-2-4. アナログメーター出力レベル調整

ここでは工場出荷時のアナログメーター出力レベル調整について述べる。

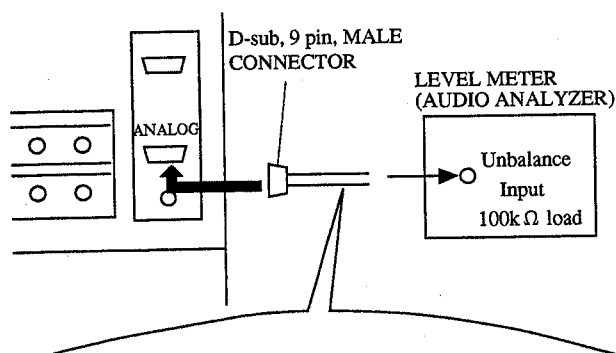
VU METER PANEL DMBK-4003 (OPTION)やその他のメーターをコンソールのANALOG METER端子に接続して使用する際、接続したメーターの基準位置 (OVU等)の調整が必要な場合は以下の調整を行う。

使用機器、治工具 (部品)

オーディオレベルメーター (オーディオアナライザー)
D-sub, 9pin, オスコネクター

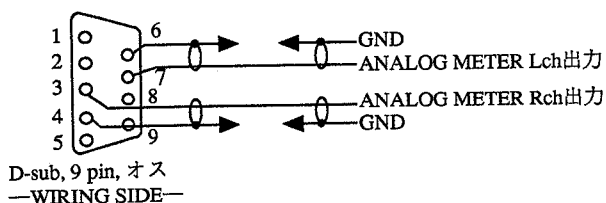
接続

CONSOLE, Rear panel



注意: ANALOG METER端子(D-sub, 9 pin, メス)への接続は、D-sub, 9 pin, オスコネクターを使用して、下記配線図に従って接続コードを作成して行う。

配線図



スイッチ、コントロール設定

"2-1-2. 初期設定"に同じ。

調整手順

(1) セットアップ画面のMT/OSC/TB画面を開いてOSC (内蔵オシレーターの出力) をPGM出力に設定する。(メーターユニットのステータスインジケーターOSCが点灯)

(2) 調整

規格: ANALOG METER Lch (7番ピン) 出力レベル
= +4.0 dBs $\pm$ 0.1 dB (工場出荷時の調整)
ANALOG METER Rch (3番ピン) 出力レベル
= +4.0 dBs $\pm$ 0.1 dB (工場出荷時の調整)
または、
接続しているメーターの指示レベル
= 基準位置(OVU等)

調整箇所: Lch=● RV501/MOA-7基板 (B, 7)

Rch=● RV502/MOA-7基板 (B, 8)

(3) 調整後、OSC設定をOFFにする。

(メーターユニットのステータスインジケーターOSCが
消灯)

2-2-5. コミュニケーションレベル調整

ここではコンソール、COMMUNICATION端子の下記コミュニケーションの入・出力レベルを調整する。

また、COMMUNICATION端子を使用して、外部とコミュニケーションを取る際に、外部機器とのレベルが一致しない場合は、使用する外部機器を接続して、必要に応じて下記ボリュームを調整する。

変更したいコミュニケーションの入・出力レベル	調整箇所 (MOA-7A/7B基板)
トークバック1の出力レベル	● RV603 (L, 7)
トークバック2の出力レベル	● RV604 (L, 7)
トークバック3の出力レベル	● RV605 (M, 7)
トークバック1のスタジオモニターへの割り込みレベル	● RV606 (M, 7)
内蔵トークバックマイクと外部トークバックマイク入力のレベルバランス	内蔵マイク: ● RV601 (J, 8) 外部トークバックマイク: ● RV602 (J, 7)
インカムレシーブ1入力のスピーカレベル	● RV701 (H, 6)
インカムレシーブ2入力のスピーカレベル	● RV702 (H, 6)
DMBK-4012 (オプション) からのリバーブトークバックレベル	● RV703 (J, 6)
インカムレシーブ1入力などのヘッドホンへの割り込みレベル	● RV704 (G, 6)
DMBK-4012 (オプション) からのナレーションモニターレベル	● RV705 (E, 8)

以下は、工場出荷時の調整 (設定) について述べる。

使用機器、治工具 (部品)

オーディオレベルメーター (オーディオアナライザー)

オーディオオシレーター (オーディオアナライザー)

D-sub, 37ピン、オスコネクター: 1

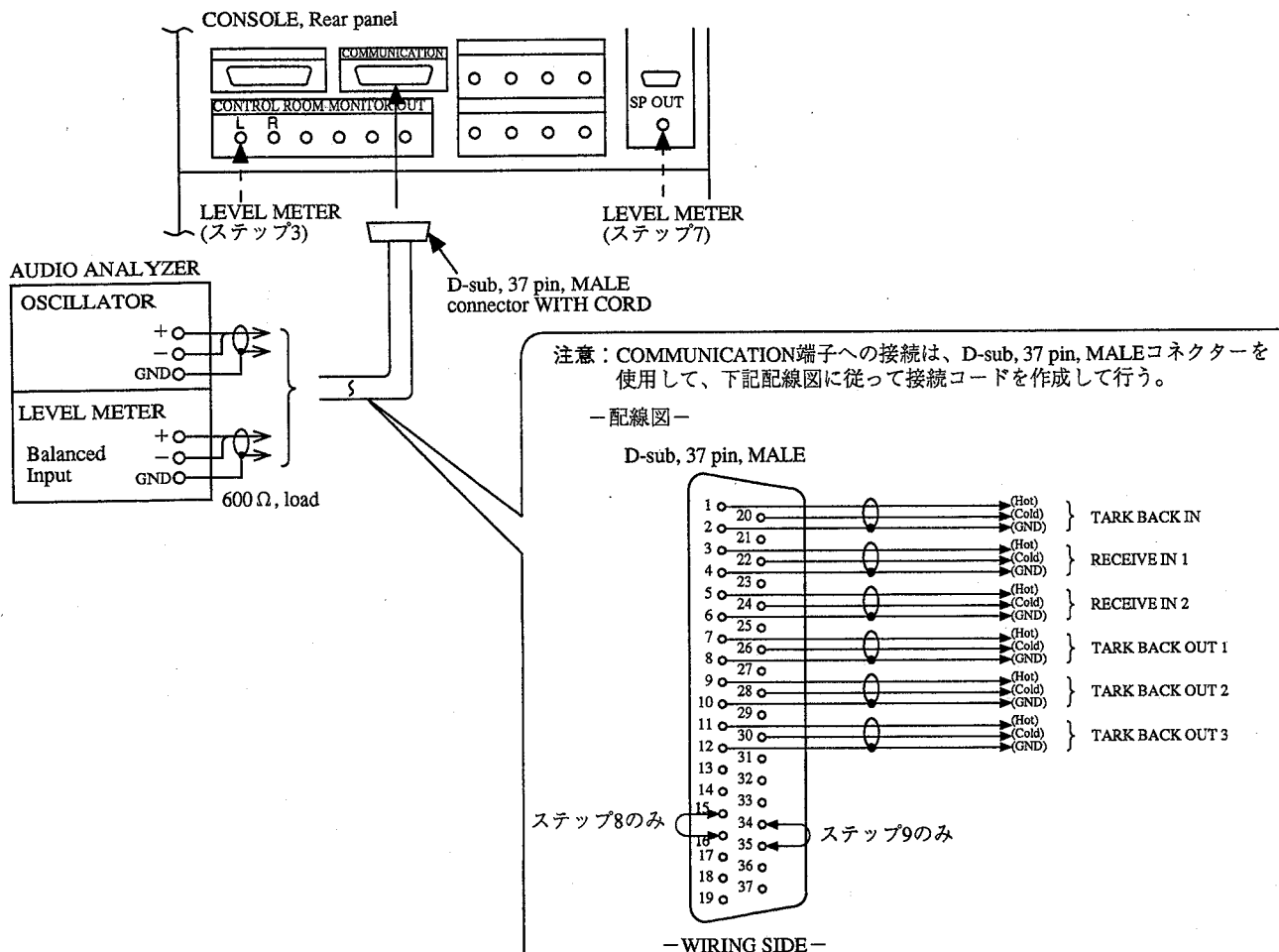
D-sub, 15ピン、オスコネクター: 1

スイッチ、コントロール設定

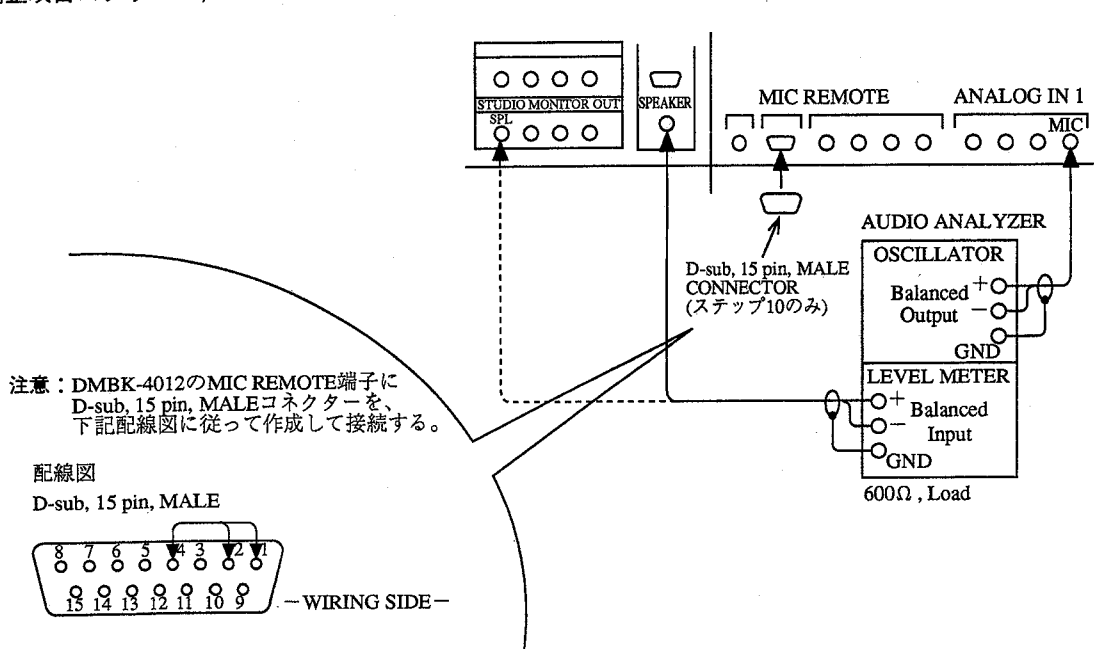
"2-1-2. 初期設定"に同じ。

接続

調整項目ステップ1から9



調整項目ステップ10, 11



調整手順

注意: 1. 調整は、ステップ順に行う。

2. ステップ10, 11の調整は、DMBK-4012 (OPTION)
が装着されていることを条件とする。

調整項目	調整時の状態	規格	調整箇所 (MOA-7A/7B基板)
ステップ1 トークバックアウト1 の出力レベル調整	- RV601 (J, 8) を時計方向に回しきる。 - RV602 (J, 7) を時計方向に回しきる。 - SEND1 スイッチ (マスター操作パネル、コンソール) を ONにする。 - COMMUNICATIONコネクターのTALK BACK IN (1番ピン:HOT/20番ピン:Cold/2番ピン:GND) にオシレーター (オーディオアナライザー) より1 KHz, +4 dBsのバランス信号を入力する。 - COMMUNICATIONコネクターのTALK BACK OUT 1 (7番ピン:HOT/26番ピン:Cold/8番ピン:GND) にレベルメーター (オーディオアナライザー) を接続する。	トークバックアウト1 の出力レベル: +24.0 dBs $\pm$ 0.1 dB	● RV603 (L, 7)
ステップ2 外部トークバックマイク のミックスレベル調整	ステップ1に同じ。	トークバックアウト1 の出力レベル: +14.0 dBs $\pm$ 0.1 dB	● RV602 (J, 7)
ステップ3 スタジオトーク バックの出力レベル 調整	- RV601 (J, 8) を時計方向に回しきる。 - SEND1 スイッチ (マスター操作パネル、コンソール) を ONにする。 - COMMUNICATIONコネクターのTALK BACK IN (1番ピン:HOT/20番ピン:Cold/2番ピン:GND) にオシレーター (オーディオアナライザー) より1 KHz, +4 dBsのバランス信号を入力する。 - STUDIO MONITOR OUT SP-L コネクター (コンソール、リアパネル) にレベルメーター (オーディオアナライザー) を接続する。	STUDIO MONITOR OUT SP-Lの出力レベル: +14.0 dBs $\pm$ 0.2 dB	● RV606 (M, 7)
ステップ4 トークバックアウト2の 出力レベル調整	- RV601 (J, 8) を時計方向に回しきる。 - SEND2 スイッチ (マスター操作パネル、コンソール) を ONにする。 - COMMUNICATIONコネクターのTALK BACK IN (1番ピン:HOT/20番ピン:Cold/2番ピン:GND) にオシレーター (オーディオアナライザー) より1 KHz, +4 dBsのバランス信号を入力する。 - COMMUNICATIONコネクターのTALK BACK OUT 2 (9番ピン:HOT/28番ピン:Cold/10番ピン:GND) にレベルメーター (オーディオアナライザー) を接続する。	トークバックアウト2 の出力レベル: +14.0 dBs $\pm$ 0.2 dB	● RV604 (L, 7)

(0 dBs = 0.775 Vrms)

調整項目	調整時の状態	規格	調整箇所 (MOA-7A/7B基板)
ステップ5 トークバックアウト3 の出力レベル調整	下記設定以外は、ステップ4に同じ。 ・ SEND3 スイッチ (マスター操作パネル、コンソール) を ONにする。 ・ COMMUNICATIONコネクターのTALK BACK OUT 3 (11番ピン:HOT/30番ピン:Cold/12番ピン:GND) にレベルメーター (オーディオアナライザー) を接続する。	トークバックアウト3 の出力レベル: +14.0 dBs $\pm$ 0.2 dB	● RV605 (M, 7)
ステップ6 内蔵トークバック マイクのミックス レベル調整	下記設定以外は、ステップ5に同じ。 ・ COMMUNICATIONコネクターのTALK BACK IN を無接続にする。	・ RV601をステップ2の RV602調整位置に、 機械的に合わせる。 ・ TALK BACK OUT 3に 出力があることを 確認する。	● RV601 (J, 8)
ステップ7 インカムレシーブ1の ミックスレベル調整	・ SP LVL コントロール (マスター操作パネル、コンソール) を、MAX位置にする。 ・ COMMUNICATIONコネクターのRECEIVE IN 1 (3番ピン:HOT/22番ピン:Cold/4番ピン:GND) にオシレーター (オーディオアナライザー) より1 KHz, +4 dBsのバランス信号を入力する。 ・ COMMUNICATIONコネクターのRECEIVE CMD IN 1 (15番ピン) を"L"に設定する。 (15番ピンと16番ピン, GNDを接続する。) ・ SPEAKER OUT コネクター (コンソール、リアパネル) にレベルメーター (オーディオアナライザー) を接続する。	SPEAKER OUTの 出力レベル: +12.0 dBs $\pm$ 0.2 dB	● RV701 (H, 6)
ステップ8 インカムミックス レベルの調整	・ HEADPHONES コントロール (マスター操作パネル、コンソール) を、MAX位置にする。 ・ COMMUNICATIONコネクターのRECEIVE IN 1 (3番ピン:HOT/22番ピン:Cold/4番ピン:GND) にオシレーター (オーディオアナライザー) より1 KHz, +4 dBsのバランス信号を入力する。 ・ COMMUNICATIONコネクターのRECEIVE CMD IN 1 (15番ピン) を"L"に設定する。 (15番ピンと16番ピン, GNDを接続する。) ・ HEADPHONES 端子 (マスター操作パネル、コンソール) のLch出力にレベルメーター (オーディオアナライザー) を接続する。 接続方法は、"2-2-3. HEADPHONES出力レベル調整"を参照して行う。	HEADPHONES端子、 Lchの出力レベル: 0 dBs $\pm$ 0.2 dB	● RV704 (G, 6)

(0 dBs = 0.775 Vrms)

調整項目	調整時の状態	規格	調整箇所 (MOA-7A/7B基板)
ステップ9 インカムレシーブ2の ミックスレベル調整	・ SP LVL コントロール (マスター操作パネル、コンソール) を、MAX位置にする。 ・ COMMUNICATIONコネクターのRECEIVE IN 2 (5番ピン:HOT/24番ピン:Cold/6番ピン:GND) にオシレーター (オーディオアナライザー) より1 KHz, +4 dBsのバランス信号を入力する。 ・ COMMUNICATIONコネクターのRECEIVER CMD IN 2 (34番ピン) を"L"に設定する。 (34番ピンと35番ピン, GNDを接続する。) ・ SPEAKER OUT コネクタ (コンソール、リアパネル) にレベルメーター (オーディオアナライザー) を接続する。	SPEAKER OUTの 出力レベル: +12.0 dBs $\pm$ 0.2 dB	● RV702 (H, 6)
ステップ10 リバーストーク バックのミックス レベル調整	・ DMBK-4012, ANALOG IN 1パネル (コンソール、リアパネル) のMICコネクタに、オシレーター (オーディオアナライザー) より1 KHz, -30 dBsのバランス信号を入力する。 ・ DMBK-4012, ANALOG IN 1パネル (コンソール、リアパネル) のMIC REMOTEコネクタの REVERSE TALK BACK CMD IN 1 (2ピン) および MIC ON CMD IN 1 (1ピン) を"L"に設定する。 (1番ピンと2番ピンを4番ピン, GNDに接続する。) ・ SPEAKER OUT コネクタ (コンソール、リアパネル) にレベルメーター (オーディオアナライザー) を接続する。	SPEAKER OUTの 出力レベル: +12.0 dBs $\pm$ 0.1 dB	● RV703 (J, 6)
ステップ11 ナレーションモニター のミックスレベル 調整	・ セットアップ画面のNARRATION SOURCE/ PFL LOGIC画面を選択して、NARRATION SOURCEを 選択する。 ・ DMBK-4012, ANALOG IN 1パネル (コンソール、 リアパネル) のMICコネクタに、オシレーター (オーディオアナライザー) より1 KHz, -30 dBsの バランス信号を入力する。 ・ STUDIO MONITOR OUT SPL (コンソール、リアパネル) にレベルメーター (オーディオアナライザー) を接続する。	STUDIO MONITOR OUT SPLの出力レベル: +4.0 dBs $\pm$ 0.1 dB	● RV705 (E, 8)

(0 dBs = 0.775 Vrms)

2-3. PLL調整 (CPU-164基板、DMX-B4008プロセッサ)

ここでは、システム全体のサンプリング周波数の基になるPLL調整を行う。

使用機器、治工具

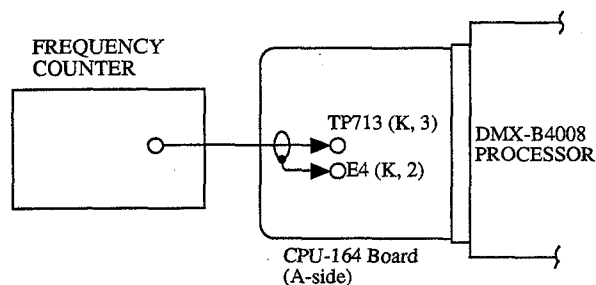
周波数カウンター

延長基板 EX-360: ソニー部品番号 J-6400-050-A

準備

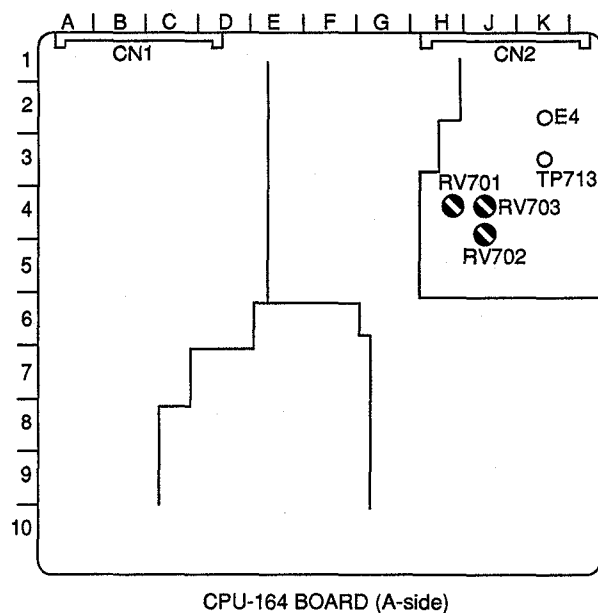
- (1) CPU-164基板を延長基板EX-360で延長する。
- (2) プロセッサのREF VIDEO入力端子を無接続にする。

接続



スイッチ、コントロール設定
"2-1-2. 初期設定"に同じ。

調整箇所



調整手順

- (1) 周波数カウンターをTP713/CPU-164 (K, 3), E4/CPU-164 (K, 2) に接続する。
- (2) SYSTEM CLOCK設定スイッチS501-1, 2, 3/CPU-164を下記の設定にしたときに、TP713の周波数が下記規格になるようにRV701, 702, 703を調整する。

S501			サンプリング 周波数	規格	調整箇所 (CPU-164基板)
-1	-2	-3			
ON	OFF	OFF	48.0 kHz	4.8000 MHz ± 40 Hz	RV701 (H,4)
OFF	ON	OFF	44.1 kHz	4.4100 MHz ± 40 Hz	RV702 (J,4)
OFF	OFF	ON	44.056 kHz	4.4056 MHz ± 40 Hz	RV703 (J,4)

2-4. DAコンバーターレベル調整1 (DIO-26基板、DMX-B4008プロセッサー)

ここでは、CONTROL ROOM MONITORおよびSTUDIO MONITORのDAコンバーター調整を行う。

スイッチ、コントロール設定
"2-1-2. 初期設定"に同じ。

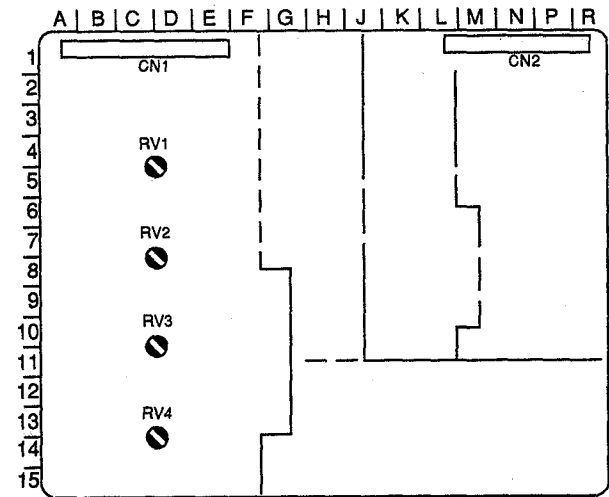
使用機器、治工具

- オーディオレベルメーター (オーディオアナライザー)
- 延長基板 EX-360: ソニー部品番号 J-6400-050-A
- Dsub-XLR変換ケーブル: ソニー部品番号 J-6401-180-A

準備

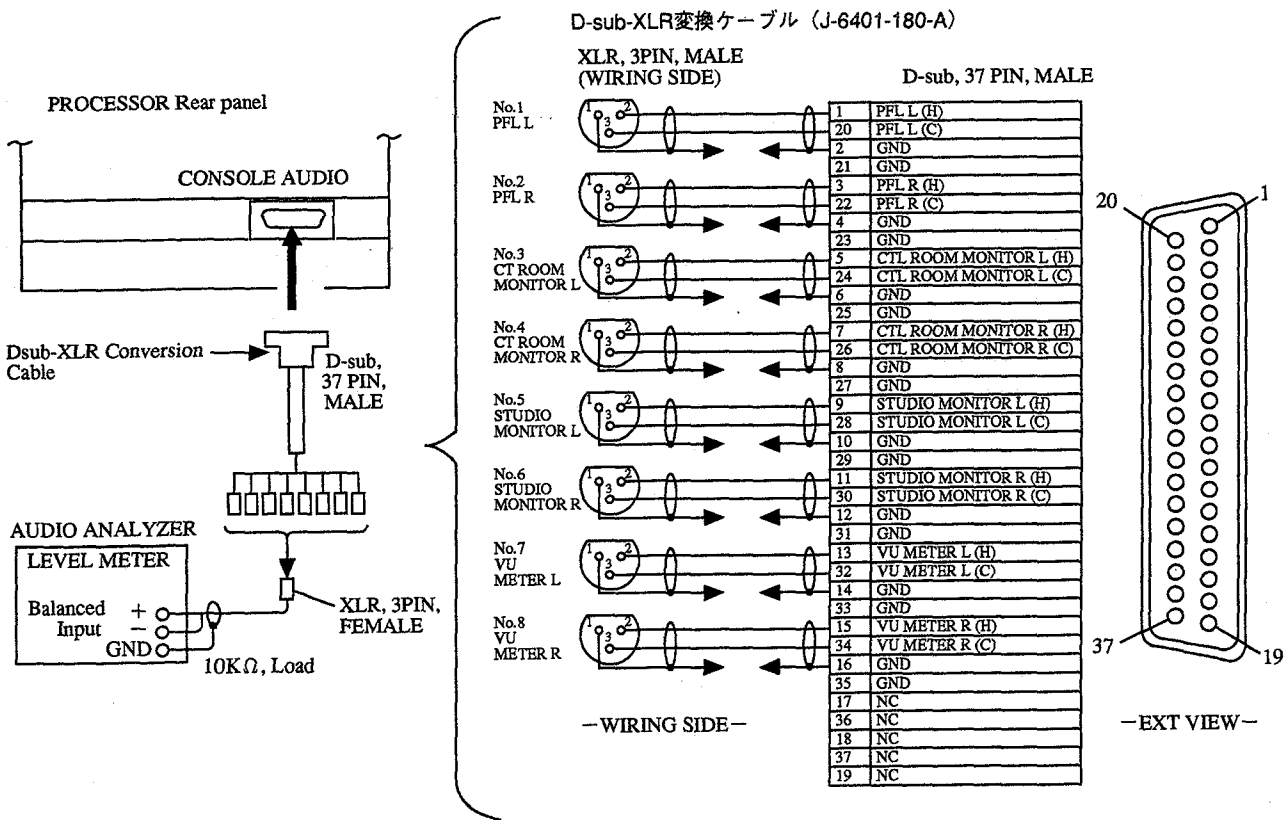
- DIO-26基板を延長基板EX-360で延長する。
- プロセッサーのCONSOLE AUDIO端子に接続されているケーブルを外し、Dsub-XLR変換ケーブルを接続する。

調整箇所



DIO-26 BOARD (A-side)

接続



調整手順

- (1) セットアップ画面のMT/OSC/TB画面を開いて、OSC (内部オシレーターの出力) をPGM出力に設定する。
(メーターユニットのステータスインジケータ-OSCが点灯)
- (2) 調整

調整項目	調整時の状態	規格	調整箇所 (DIO-26基板)
CONTROL ROOM MONITOR L コンバーターレベル調整	Dsub-XLR変換ケーブルのNo. 3ケーブル (CTL RM MONITOR L) をオーディオレベルメーターに 接続する。	DAコンバーター レベル: +4.0 dBs $\pm$ 0.1 dB	● RV1 (D,9)
CONTROL ROOM MONITOR R コンバーターレベル調整	Dsub-XLR変換ケーブルのNo. 4ケーブル (CTL RM MONITOR R) をオーディオレベルメーターに 接続する。	DAコンバーター レベル: +4.0 dBs $\pm$ 0.1 dB	● RV2 (D,7)
STUDIO MONITOR L コンバーターレベル調整	Dsub-XLR変換ケーブルのNo. 5ケーブル (STUDIO MONITOR L) をオーディオレベルメーターに 接続する。	DAコンバーター レベル: +4.0 dBs $\pm$ 0.1 dB	● RV3 (D,10)
STUDIO MONITOR R コンバーターレベル調整	Dsub-XLR変換ケーブルのNo. 6ケーブル (STUDIO MONITOR R) をオーディオレベルメーターに 接続する。	DAコンバーター レベル: +4.0 dBs $\pm$ 0.1 dB	● RV4 (D,13)

(0 dBs = 0.775 Vrms)

- (3) 調整後、OSCの設定をOFFにする。
(メーターユニットのステータスインジケータ-OSCが消灯)

2-5. DAコンバーターレベル調整2 (CN-837 基板、DMX-B4008プロセッサー)

ここでは、PFLのDAコンバーターレベルの調整を行う。

調整箇所

使用機器、治工具

オーディオレベルメーター (オーディオアナライザー)
Dsub-XLR変換ケーブル: ソニー部品番号 J-6401-180-A

準備

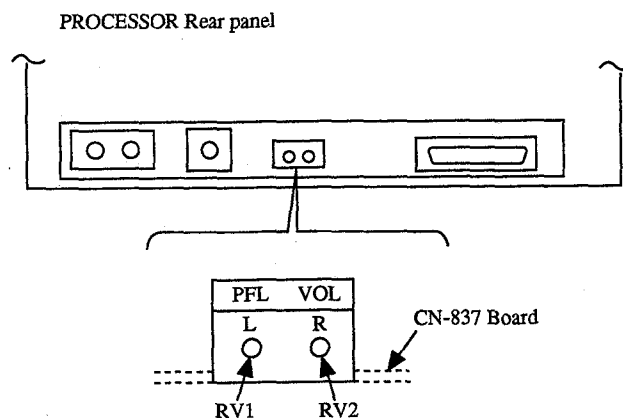
プロセッサーのCONSOLE AUDIO端子に接続されているケーブルを外し、Dsub-XLR変換ケーブルを接続する。

接続

"2-2-5. コミュニケーションレベル調整"に同じ。

スイッチ、コントロール設定

"2-1-2. 初期設定"に同じ。



調整手順

- (1) セットアップ画面のMT/OSC/TB画面を開いてOSC (内部オシレーターの出力) をPGM出力に設定する。
(メーターユニットのステータスインジケーターOSCが点灯)
- (2) チャンネル操作パネルのCH1チャンネル操作ブロックのPFLスイッチをONにする。
(メーターユニットのステータスインジケーターPFLが点灯)
- (3) 調整

調整項目	調整時の状態	規格	調整箇所 (CN-837基板)
PFL L コンバーターレベル調整	Dsub-XLR変換ケーブルのNo. 1ケーブル (PFL L) をオーディオレベルメーターに接続する。	コンバーターレベル 出力: +4.0 dBs±0.1dB	● RV1 調整はリアパネルの調整孔より行う。
PFL R コンバーターレベル調整	Dsub-XLR変換ケーブルのNo. 2ケーブル (PFL R) をオーディオレベルメーターに接続する。	コンバーターレベル 出力: +4.0 dBs±0.1dB	● RV2 調整はリアパネルの調整孔より行う。

(0 dBs = 0.775 Vrms)

- (4) 調整後、OSCの設定をOFFにする。
(メーターユニットのステータスインジケーターOSCが消灯)

2-6. CPU-144基板調整 (DMX-B4016 プロセッサ)

使用機器、治工具

周波数カウンター

オーディオレベルメーター (オーディオアナライザー)

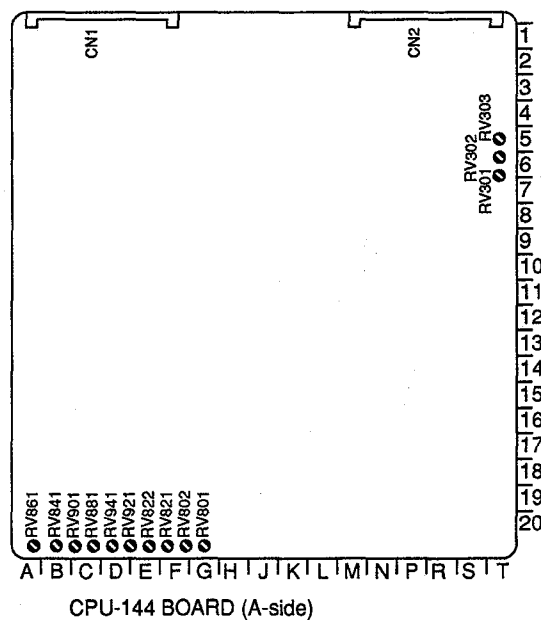
延長基板 EX-455: ソニー部品番号 J-6401-190-A

Dsub-XLR変換ケーブル: ソニー部品番号 J-6401-180-A

準備

CPU-144基板を延長基板EX-455で延長する。

調整箇所



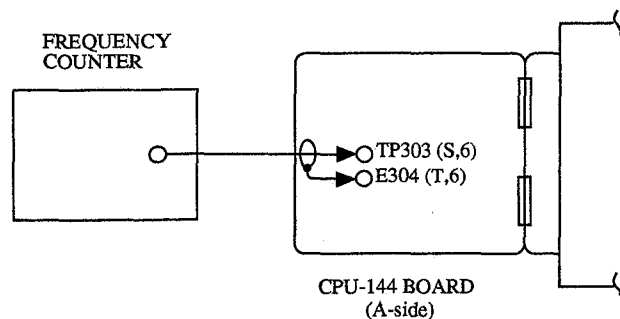
CPU-144 BOARD (A-side)

2-6-1. PLL調整

ここでは、システム全体のサンプリング周波数の基になる
PLL調整を行う。

接続

注意: プロセッサのREF VIDEO INPUT端子を無接続と
する。



スイッチ、コントロール設定

"2-1-2. 初期設定"に同じ。

調整手順

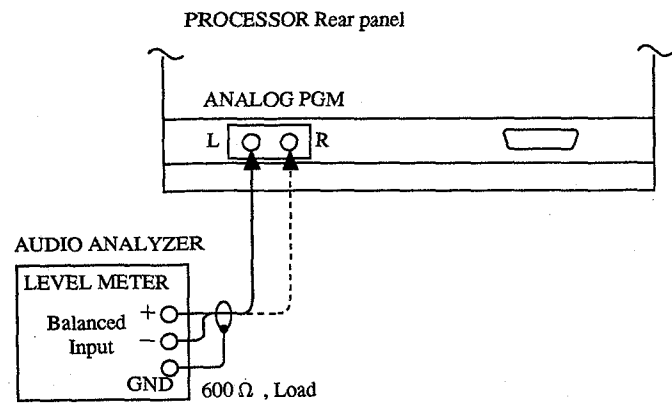
- (1) 周波数カウンターをTP303/CPU-144 (S, 6), E304/CPU-144 (T, 6) に接続する。
- (2) SYSTEM CLOCK設定スイッチS501-1, 2, 3/CPU-144を下
記の設定にしたときに、TP303の周波数が下記規格にな
るようにRV301、302、303を調整する。

S501			サンプリング 周波数	規格	調整箇所 (CPU-144基板)
-1	-2	-3			
ON	OFF	OFF	48.0 kHz	4.8000 MHz±40 Hz	● RV303 (T4)
OFF	ON	OFF	44.1 kHz	4.4100 MHz±40 Hz	● RV302 (T5)
OFF	OFF	ON	44.056 kHz	4.4056 MHz±40 Hz	● RV301 (T4)

2-6-2. DAコンバーターレベル調整1

ここでは、ANALOG PGM OUTのDAコンバーター調整を行う。

接続



スイッチ、コントロール設定

"2-1-2. 初期設定"に同じ。

調整手順

- (1) セットアップ画面のMT/OSC/TB画面を開いてOSC (内部オシレーターの出力) をPGM出力に設定する。
(メーターユニットのステータスインジケーターOSC点灯)
- (2) 調整

調整項目	調整時の状態	規格	調整箇所 (CPU-144基板)
ANALOG PGM L DAコンバーター レベル調整	オーディオレベルメーター (オーディオアナライザー) ANALOG PGM Lコネクタに接続する。	DAコンバーター 出力レベル: +4.0 dBs±0.1dB	RV801 (F,20)
ANALOG PGM R DAコンバーター レベル調整	オーディオレベルメーター (オーディオアナライザー) ANALOG PGM Rコネクタに接続する。	DAコンバーター 出力レベル: +4.0 dBs±1.1dB	RV821 (E,20)

(0 dBs = 0.775 Vrms)

- (3) 調整後、OSCの設定をOFFにする。
(メーターユニットのステータスインジケーターOSC消灯)

2-6-3. DAコンバーターレベル調整2

ここでは、コンソールへ送出するアナログ信号(CONTROL, STUDIO MONITOR等)のDAコンバーターレベル調整を行う。

準備

プロセッサのCONSOLE AUDIO端子に接続されているケーブルを外し、Dsub-XLR変換ケーブルを接続する。

接続

"2-2-5. コミュニケーション レベル調整"に同じ。

スイッチ、コントロール設定

"2-1-2. 初期設定"に同じ。

調整手順

- (1) セットアップ画面のMT/OSC/TB画面を開いてOSC (内部オシレーターの出力) をPGM出力に設定する。
(メーターユニットのステータスインジケーターOSCが点灯)
- (2) チャンネル操作パネルのCH1チャンネル操作ブロックのPFLスイッチをONにする。
(メーターユニットのステータスインジケーターPFLが点灯)
- (3) 調整

調整項目	調整時の状態	規格	調整箇所 (CPU-144基板)
VU METER L DAコンバーター レベル調整	Dsub-XLR変換ケーブルのNo. 7ケーブル (VU METER L) をオーディオレベルメーターに接続する。	DAコンバーター 出力レベル: +4.0 dBs±0.1dB	● RV802 (F, 20)
VU METER R DAコンバーター レベル調整	Dsub-XLR変換ケーブルのNo. 8ケーブル (VU METER R) をオーディオレベルメーターに接続する。	DAコンバーター 出力レベル: +4.0 dBs±0.1dB	● RV821 (E, 20)
CONTROL ROOM MONITOR L DAコンバーターレベル調整	Dsub-XLR変換ケーブルのNo. 3ケーブル (CTL RM MONITOR L) をオーディオレベルメーターに接続する。	DAコンバーター 出力レベル: +4.0 dBs±0.1dB	● RV881 (C, 20)
CONTROL ROOM MONITOR R DAコンバーターレベル調整	Dsub-XLR変換ケーブルのNo. 4ケーブル (CTL RM MONITOR R) をオーディオレベルメーターに接続する。	DAコンバーター 出力レベル: +4.0 dBs±0.1dB	● RV901 (C, 20)
STUDIO MONITOR L DAコンバーター レベル調整	Dsub-XLR変換ケーブルのNo. 5ケーブル (STUDIO MONITOR L) をオーディオレベルメーターに接続する。	DAコンバーター 出力レベル: +4.0 dBs±0.1dB	● RV921 (D, 20)
STUDIO MONITOR R DAコンバーター レベル調整	Dsub-XLR変換ケーブルのNo. 6ケーブル (STUDIO MONITOR R) をオーディオレベルメーターに接続する。	DAコンバーター 出力レベル: +4.0 dBs±0.1dB	● RV941 (D, 20)
PFL L DAコンバーター レベル調整	Dsub-XLR変換ケーブルのNo. 1ケーブル (PFL L) をオーディオレベルメーターに接続する。	DAコンバーター 出力レベル: +4.0 dBs±0.1dB	● RV841 (B, 20)
PFL R DAコンバーター レベル調整	Dsub-XLR変換ケーブルのNo. 2ケーブル (PFL R) をオーディオレベルメーターに接続する。	DAコンバーター 出力レベル: +4.0 dBs±0.1dB	● RV861 (B, 20)

(0 dBs = 0.775 Vrms)

- (4) 調整後、OSCの設定をOFFにする。
(メーターユニットのステータスインジケーターOSC消灯)

2-7. AD-100基板調整 (DMBK-4012 装着時)

ここでは、DMBK-4012のMICアンプ、LINEアンプ、INSERT SEND/RETURNアンプおよびDAコンバーターの調整を行う。

準備

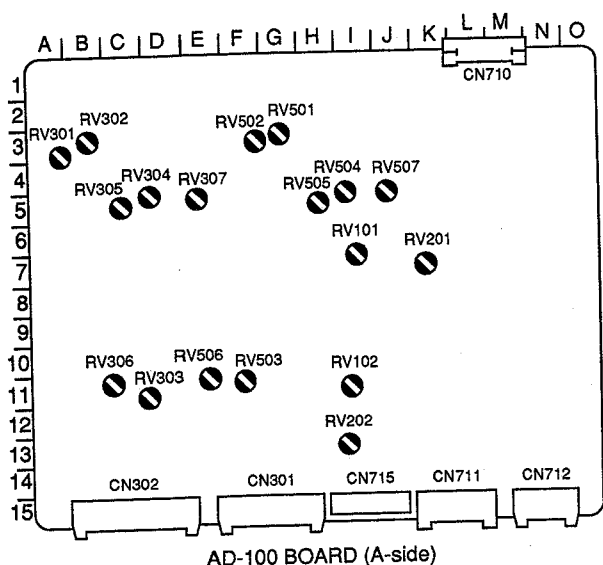
本調整は、下記作業を行った後行う。
作業はコンソールの電源をOFFにして行う。

- (1) 調整するDMBK-4012のAD-100基板をコンソールより外す。
(外し方はMAINTENANCE MANUAL Part1 "2-12. DMBK-4012 20BIT MIC/LINE INPUT MODULEの取り付け"を参照して行う。)
- (2) 外したAD-100基板 (A-side) のシールド板を外す。
- (3) AD-100基板 (シールド板を外した状態) をコンソールに装着する。(ハーネスは接続されていること)
- (4) 調整するAD-100基板の装着されたチャンネルフレーム (コンソール) のチャンネルパネルASSY (ハーネスは接続したままの状態) を外し、AD-100基板が調整できる状態にする。

使用機器

オーディオオシレーター (オーディオアナライザー)
オーディオレベルメーター (オーディオアナライザー)
DC電圧計 (またはテスター)

調整箇所

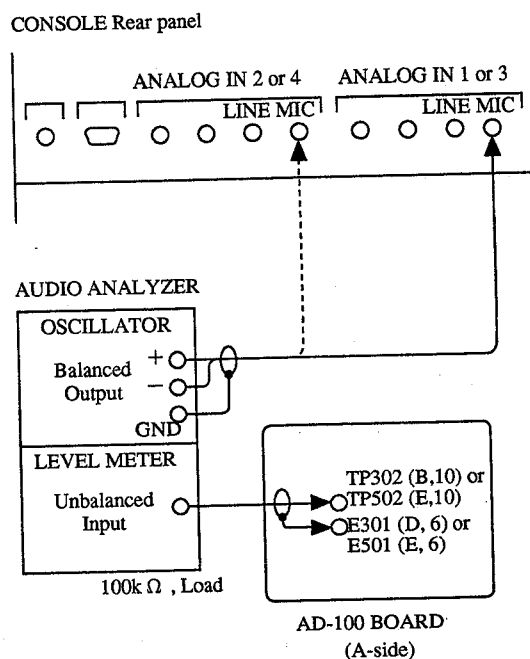


2-7-1. MICアンプ調整

使用機器

オーディオオシレーター (オーディオアナライザー)
オーディオアナライザー (オーディオアナライザー)

接続



スイッチ、コントロール設定
"2-1-2. 初期設定"に同じ。

調整

- ・ 下記調整をSTEP順に行う。
- ・ STEP2, 3および6, 7は繰り返し2回行う。

STEP	調整項目	調整時の状態	規格	調整箇所 (AD-100基板)
1	MIC1入力レベル 調整	・ MIC IN1 (ANALOG IN1 (or 3)) コネクタにオーディオオシレーターより1 kHz, -30 dBsの信号を入力する。 ・ オーディオレベルメーターをAD-100基板の下記箇所に接続する。 TP302 (B, 10) E301 (D, 6) (GND)	TP302 (B, 10) の レベル: -6.0 dBs±0.1 dB	● RV303 (D, 11)
2	MIC1 CMRR High Freq. (高域) 調整 注意: STEP2, 3は 2回繰り返し行う	・ STEP1に同じ。	TP302 (B, 10) の レベル: 最小	● RV302 (B, 4)
3	MIC1 CMRR Low Freq. (低域) 調整	・ STEP1に同じ。 ただし、オーディオオシレーターの信号を 60 Hz, -30 dBsとする。	TP302 (B, 10) の レベル: 最小	● RV301 (B, 3)
4	MIC1 ピークインジ ケータ調整	・ MIC IN1コネクタにオーディオオシレーター より1 kHz, -21 dBの信号を入力する。	HA PANEL (DMBK- 4012) PKインジ ケータ: 点灯	● RV306 (C, 4)
5	MIC2入力レベル 調整	・ MIC IN2 (ANALOG IN2 (or 4)) コネクタにオーディオオシレーターより1 kHz, -30 dBsの信号を入力する。 ・ オーディオレベルメーターをAD-100基板の下記箇所に接続する。 TP502 (E, 10) E501 (E, 6) (GND)	TP502 (E, 10) の レベル: -6.8 dBs±0.1 dB	● RV503 (F, 11)
6	MIC2 CMRR High Freq. (高域) 調整 注意: STEP6, 7は 2回繰り返し行う	・ STEP5に同じ。	TP502 (E, 10) の レベル: 最小	● RV502 (F, 4)
7	MIC2 CMRR Low Freq. (低域) 調整	・ STEP5に同じ。 ただし、オーディオオシレーターの信号を 60 Hz, -30 dBsとする。	TP502 (E, 10) の レベル: 最小	● RV501 (G, 3)
8	MIC2 ピークインジ ケータ調整	・ MIC IN2コネクタにオーディオオシレーター より1 kHz, -21 dBの信号を入力する。	HA PANEL (DMBK- 4012) PKインジ ケータ: 点灯	● RV506 (E, 11)

(0 dBs = 0.775 Vrms)

2-7-2. LINEアンプ調整

使用機器

- オーディオオシレーター (オーディオアナライザー)
- オーディオレベルメーター (オーディオアナライザー)

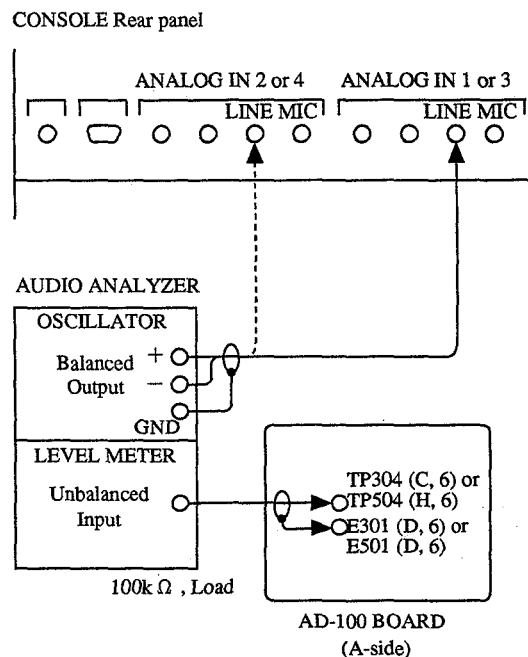
スイッチ、コントロール設定

下記設定以外は"2-1-2. 初期設定"に同じ。

HAパネル (DMBK-4012)

LINEスイッチ: ON

接続



調整

STEP	調整項目	調整時の状態	規格	調整箇所 (AD-100基板)
1	LINE1入力レベル調整	- LINE IN1 (ANALOG IN1 (or 3) パネル) コネクターにオーディオオシレーターより 1 kHz, -30 dBsの信号を入力する。 - オーディオレベルメーターをAD-100基板の下記箇所に接続する。 TP304(C, 6) E301(D, 6) (GND)	TP304 (C, 6) のレベル: -6.0 dBs $\pm$ 0.1 dB	RV305 (C, 6)
2	LINE2入力レベル調整	- LINE IN2 (ANALOG IN2 (or 4) パネル) コネクターにオーディオオシレーターより 1 kHz, -30 dBsの信号を入力する。 - オーディオレベルメーターをAD-100基板の下記箇所に接続する。 TP504 (H, 6) E501 (D, 6) (GND)	TP504 (H, 6) のレベル: -6.0 dBs $\pm$ 0.1 dB	RV505 (H, 6)

(0 dBs = 0.775 Vrms)

2-7-3. INSERTION SEND/RETURNアンプ調整

使用機器

- オーディオオシレーター (オーディオアナライザー)
- オーディオレベルメーター (オーディオアナライザー)

スイッチ、コントロール設定

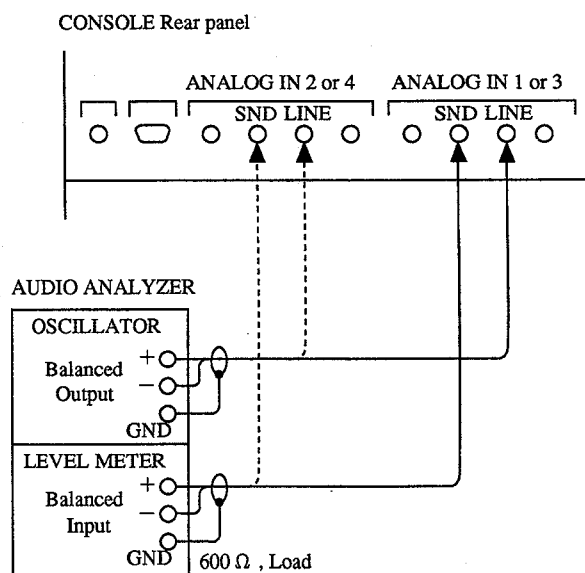
下記設定以外は"2-1-2. 初期設定"に同じ。

HAパネル (DMBK-4012)

LINEスイッチ: ON (1, 2共)

INSスイッチ: ON (1, 2共)

接続



調整

調整はSTEPの番号順に行う。

STEP	調整項目	調整時の状態	規格	調整箇所 (AD-100基板)
1	SEND1レベル調整	- LINE IN1 (ANALOG IN1 (or 3) パネル) コネクターにオーディオオシレーターより 1 kHz, +4dBsの信号を入力する。 - オーディオレベルメーターをSND1 (ANALOG IN1) コネクターに接続する。	SEND1出力レベル: +4.0 dBs $\pm$ 0.1 dB	● RV304 (D, 5)
2	SEND2レベル調整	- LINE IN2 (ANALOG IN2 (or 4) パネル) コネクターにオーディオオシレーターより 1 kHz, +4dBsの信号を入力する。 - オーディオレベルメーターをSND2 (ANALOG IN2) コネクターに接続する。	SEND2出力レベル: +4.0 dBs $\pm$ 0.1 dB	● RV505 (I, 5)
3	RETURN1レベル調整	- RTN1 (ANALOG IN1 (or 3) パネル) コネクターにオーディオオシレーターより 1 kHz, +4 dBsの信号を入力する。 - オーディオレベルメーターをAD-100基板の下記箇所に接続する。 TP305 (E, 5) E301 (D, 6), GND	TP305のレベル: −6.0 dBs $\pm$ 0.1 dB	● RV307 (E, 5)
4	RETURN2レベル調整	- RTN2 (ANALOG IN2 (or 4) パネル) コネクターにオーディオオシレーターより 1 kHz, +4 dBsの信号を入力する。 - オーディオレベルメーターをAD-100基板の下記箇所に接続する。 TP505 (J, 5) E501 (D, 6), GND	TP505のレベル: −6.0 dBs $\pm$ 0.1 dB	● RV507 (J, 5)

(0 dBs = 0.775 Vrms)

2-7-4. DAコンバーターレベル調整

使用機器

オーディオレベルメーター (オーディオアナライザー)
 テスター (DC電圧計)
 接続ケーブル (デジタルオーディオ用ECD-3C/10C/30C)

スイッチ、コントロール設定

下記設定以外は"2-1-2. 初期設定"に同じ。

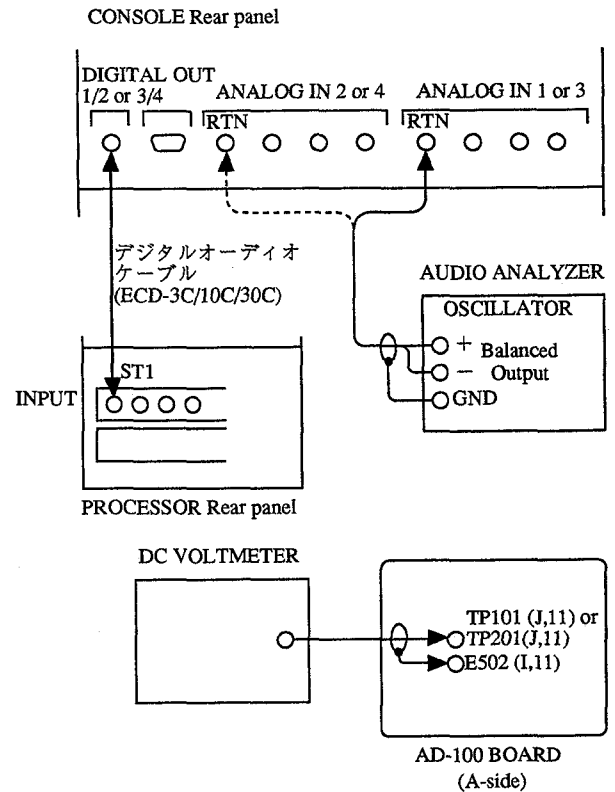
コンソール

HAパネル (DMBK-4012)

INSスイッチ: ON

接続

DIGITAL OUT (DMBK-4012リアパネル) の出力をプロセッサーのデジタルINPUT1に入力する。



調整

STEP	調整項目	調整時の状態	規格	調整箇所 (AD-100基板)
1	Lch DCオフセット調整	- RTN1 (ANALOG IN1 (or 3) パネル) コネクターを無接続にする。 - DC電圧計をAD-100基板の下記箇所に接続する。 TP101 (J, 11) E502 (I, 11), GND	オフセット電圧: 最小	● RV102 (I, 12)
2	Lch DAコンバーターレベル調整	RTN1 (ANALOG IN1 (or 3) パネル) コネクターにオーディオオシレーターより1 kHz, +24 dBsの信号を入力する。	メーターユニット: PFLバグラフメーターのOVER表示が消灯	● RV101 (I, 7)
3	Rch DCオフセット調整	- RTN2 (ANALOG IN2 (or 4) パネル) コネクターを無接続にする。 - DC電圧計をAD-100基板の下記箇所に接続する。 TP201 (J, 11) E502 (I, 11)	オフセット電圧: 最小	● RV202 (I, 14)
4	Rch DAコンバーターレベル調整	RTN2 (ANALOG IN2 (or 4) パネル) コネクターにオーディオオシレーターより1 kHz, +24 dBsの信号を入力する。	メーターユニット: PFLバグラフメーターのOVER表示が消灯	● RV201 (K, 8)

(0 dBs = 0.775 Vrms)

SECTION 1

SERVICE OVERVIEW

1-1. SWITCHING REGULATOR REPLACEMENT

DMX-B4008/B4016 simplifies its power supply by removing redundant parts.

Therefore, when replacing the following switching regulators in the 5 V block used by the CPU, it is necessary to adjust the output voltage according to the unit.

Also perform the PLL adjustment after replacing the power supply (switching regulator) in the 5 V block of the processor.

Power supply in the 5 V block

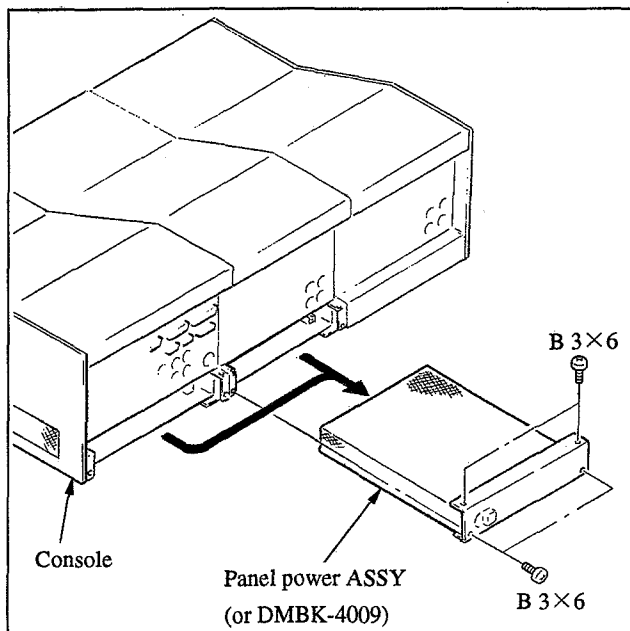
Switching regulator needed to be adjusted (Type)	Sony parts number	Used in
FAW05-20R	1-413-915-11	• Panel Power Assy (DMX-B4008, CONSOLE) • Panel Power Assy(DMX-B4016, CONSOLE) • Back Up Power Supply (DMBK-4009, OPTION)
MRW-171-1	1-413-955-11	• Rack Power Assy (DMX-B4008, PROCESSOR) • Back Up Power Supply (DMBK-4007, OPTION)
FAW05-30R	1-413-956-11	• Rack Power Assy (DMX-B4016, PROCESSOR) • Back Up Power Supply (DMBK-4008, OPTION)

1-1-1. DMX-B4008/B4016 Console

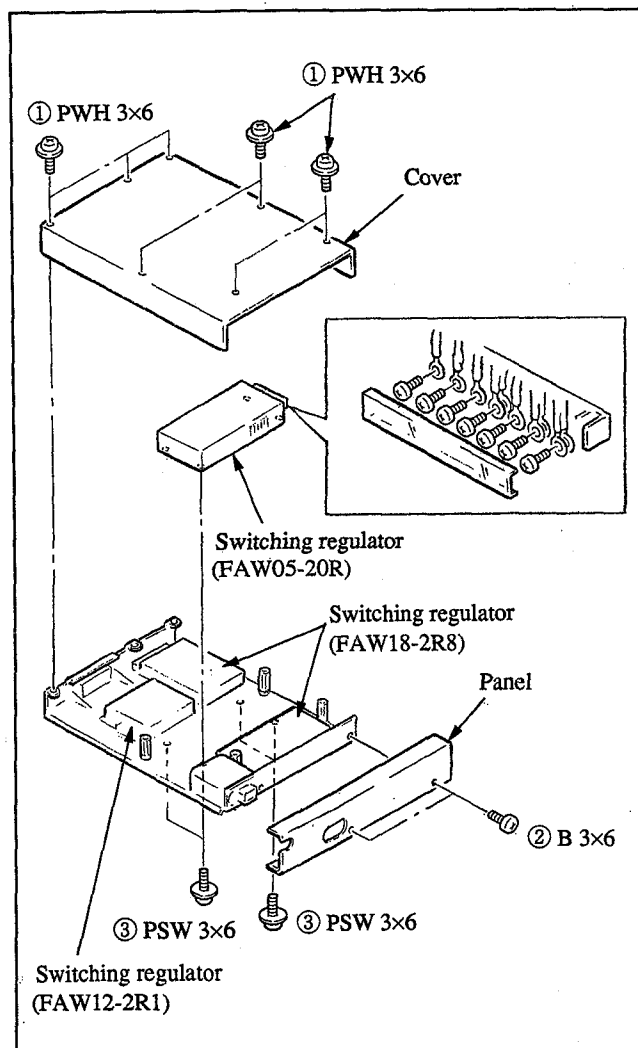
Note: Turn off the power of the console and disconnect the power supply cord when replacing the switching regulators.

Procedure

- (1) Remove the four screws (B 3x6) and remove the panel power assembly (or DMBK-4009) in the direction of the arrow.



- (2) Remove the seven screws (① PWH 3×6) and remove the cover of the panel power assembly (or DMBK-4009). Also remove the two screws (② B 3×6) and remove the panel.
- (3) Disconnect all the harnesses connected to the switching regulator(s) to be replaced.
- (4) Remove the four screws (③ PSW 3×6) and remove the switching regulator (when replacing FAW05-20R).



- (5) Attach the new switching regulator(s) to the panel power assembly (or DMBK-4009). When the following switching regulator is replaced, adjust the output voltage as follows:

Switching regulator:

FAW05-20R (Sony parts number 1-413-915-11)

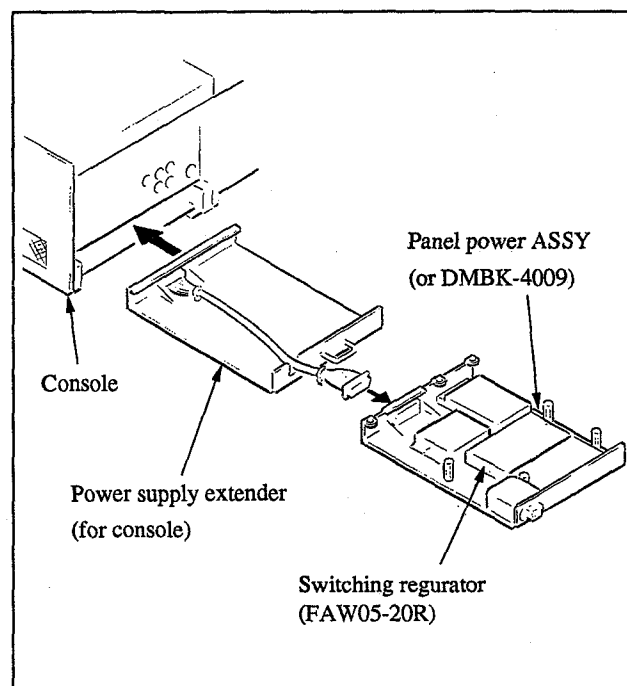
Output voltage adjustment

Equipment required: Volt-ohm-milliammeter
(Multi meter)

Tool: Power supply extender (for console)
Sony parts number J-6401-170-A

Procedure

- ① Attach the power supply extender (for console) to the console and connect the panel power assembly (or DMBK-4009) to the power supply extender (for console).

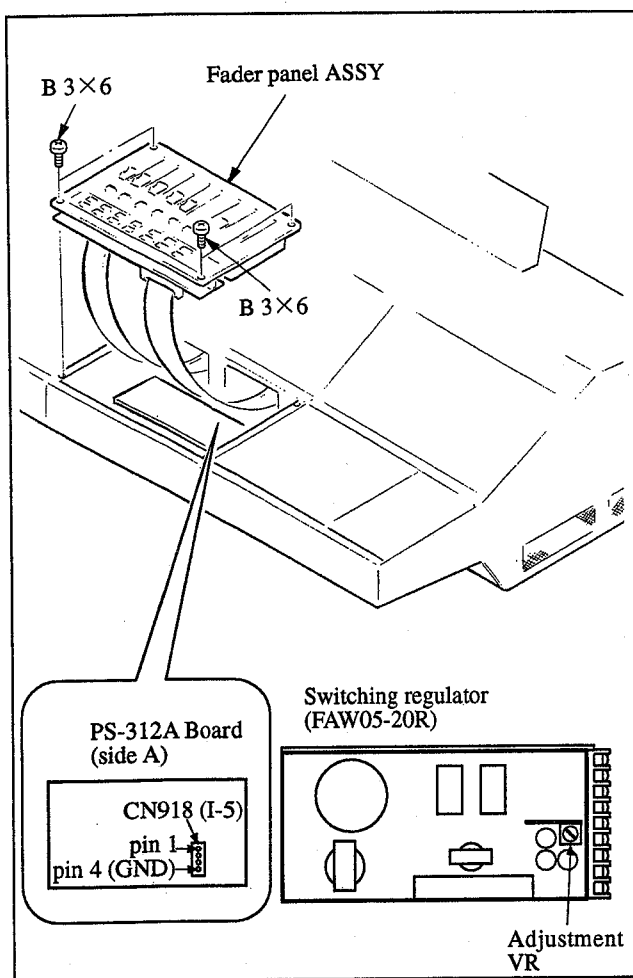


- ② Turn on the power of the console. Adjust the output voltage shown in the following figure to the specification below with the tester (multi meter).

Specification: Voltage between pin 1 and 4 of CN918 on the PS-312 board = $+5.0 \pm 0.1$ Vdc

Remove the four screws (B 3 × 6) on the console fader panel assembly and open the fader panel.

Adjustment: Adjustment VR/switching regulator (FAW05-20R)



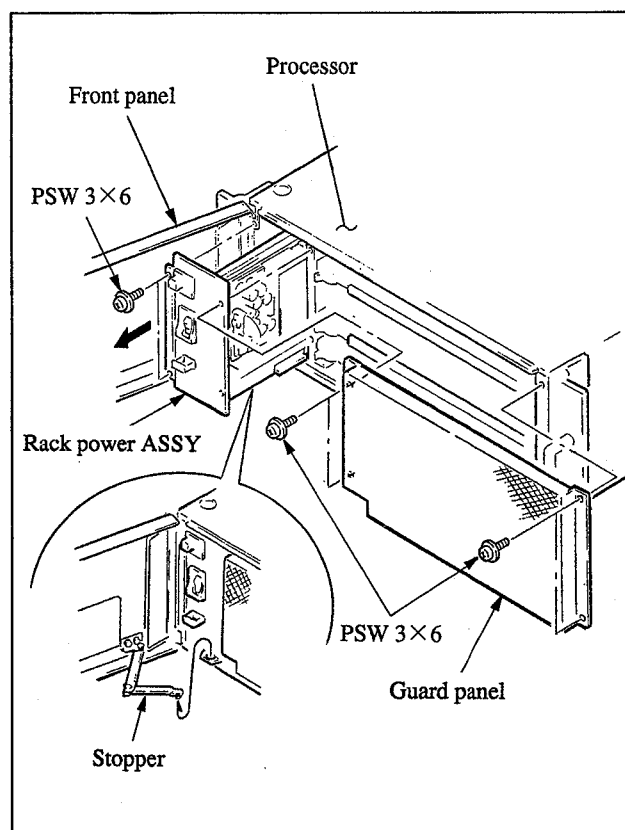
- (6) After adjustment, turn off the power of the console and attach the cover to the panel power assembly (or DMBK-4009).
- (7) Remove the power supply extender (for console) from the console, and perform steps 1 to 4 in reverse order to attach the panel power assembly (or DMBK-4009) to the console.

1-1-2. DMX-B4008 Processor

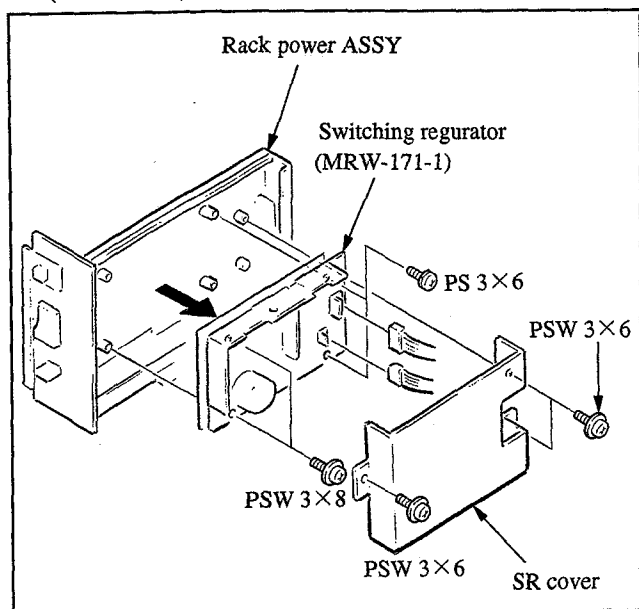
Note: Turn off the power of the processor and disconnect the power supply cord when replacing the switching regulator.

Procedure

- (1) Open the front panel of the processor and remove the stopper.
- (2) Remove the four screws (PSW 3 × 6) and remove the guard panel.
- (3) Remove the two screws (PSW 3 × 6) and pull out the rack power assembly in the direction of the arrow.



- (4) Remove the three screws (PSW 3×6) and remove the SR cover.
- (5) Remove the harnesses from the connectors (CN1 and CN2) on the switching regulator.
- (6) Remove the four screws (two PSW 3×8 screws and two PS 3×6 screws) and remove the switching regulator (MRW-171-1) in the direction of the arrow.



- (7) Attach the new switching regulator (MRW-171-1) to the rack power assembly. After the switching regulator is attached, adjust the output voltage as follows:

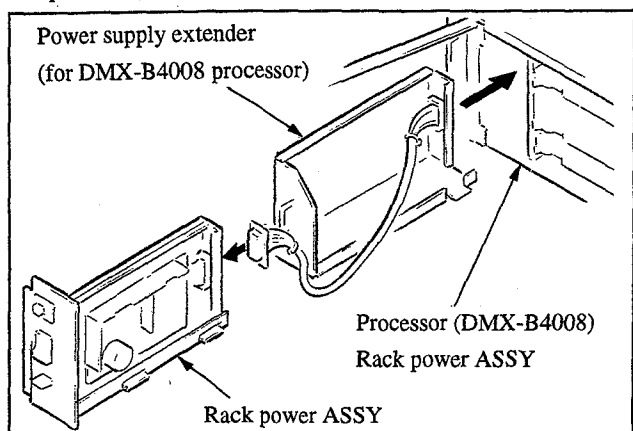
Output voltage adjustment

Equipment required: Volt-ohm-milliammeter
(Multi meter)

Tool: Power supply extender (for DMX-B4008 processor)
Sony parts number J-6401-160-A
Extension board EX-360
Sony parts number J-6400-050-A

Procedure

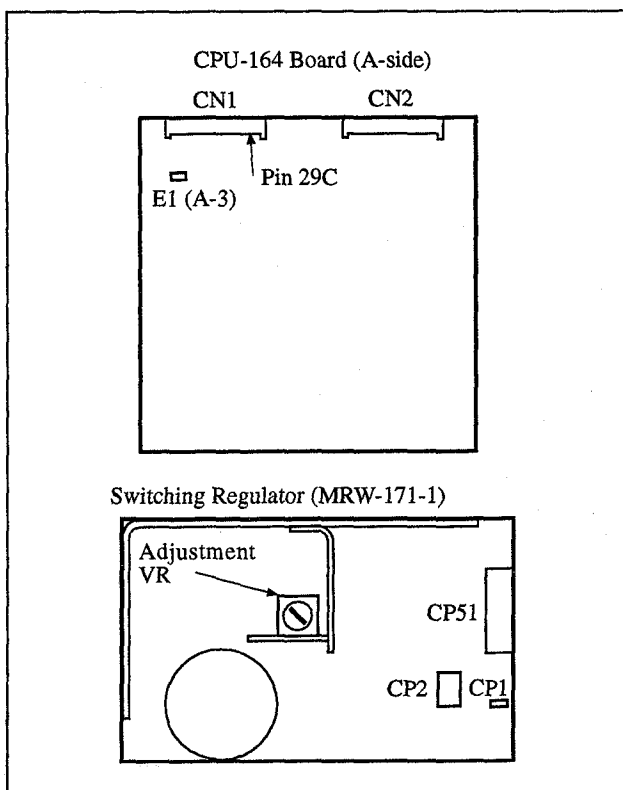
- ① Attach the power supply extension (for DMX-B4008 processor) to the processor and connect the rack power assembly to the power supply extender (for DMX-B4008 processor).



- ② Connect extension board EX-360 to extend the CPU-164 board (processor).
- ③ Turn on the power of the processor and adjust the output voltage on the CPU-164 board shown in the following figure to the specification using the tester.

Specification: Voltage between E1 (GND) and pin 29C of CN1 connector on the CPU-164 board
= +5.0 ± 0.1 Vdc

Adjustment: Adjustment VR/switching regulator (MRW-171-1)



- (8) After adjustment, turn off the power of the processor and remove the power supply extender (for DMX-B4008 processor) and disconnect extension board EX-360.
- (9) Attach the rack power assembly (after attaching the SR cover to the switching regulator) and attach the CPU-164 board to the processor. **After the board is attached, perform "2-3. PLL ADJUSTMENT".**

1-1-3. BACK UP POWER SUPPLY DMBK-4007 (Option)

When the switching regulator (MRW-171-1) used in DMBK-4007 is replaced, perform step 7 in "1-1-2. DMX-B4008 Processor" to adjust the output voltage.

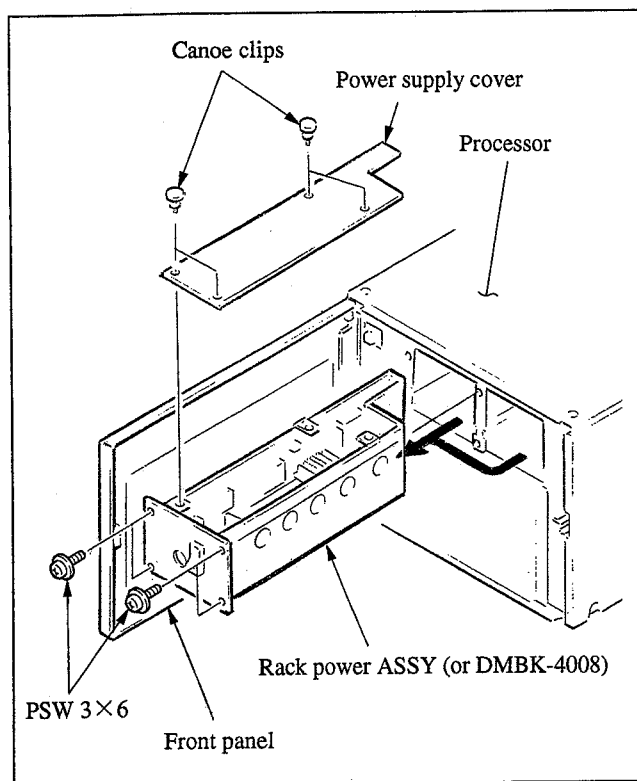
Connect DMBK-4007 to DMX-B4008 before adjustment.
After adjustment, perform "2-3. PLL ADJUSTMENT".

1-1-4. DMX-B4016 Processor (Rack Power Assembly) or BACK UP POWER SUPPLY DMBK-4008 (Option)

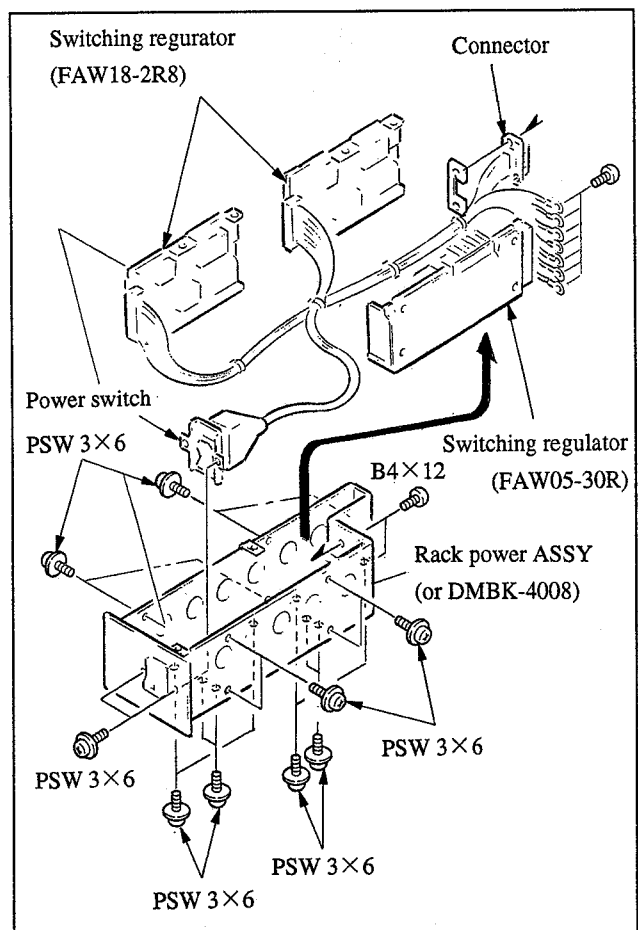
Note: Turn off the power of the processor and disconnect the power supply cord when replacing the switching regulators.

Procedure

- (1) Open the front panel of the processor and remove the stopper.
- (2) Remove the four screws (PSW 3×6) and remove the rack power assembly (or DMBK-4008) in the direction of the arrow.
- (3) Remove the four canoe clips and remove the power supply cover of the rack power assembly (or DMBK-4008).



- (4) Remove the 18 screws (PWH 3×6) and remove the power switch and three switching regulators from the rack power assembly (or DMBK-4008).
- (5) Remove the two screws (PSW 4×8) and remove the connector of the harness from the rack power assembly (or DMBK-4008).
- (6) Take out the three switching regulators from the rack power assembly (or DMBK-4008) together with the harnesses.
- (7) Remove all the harnesses connected to the switching regulator(s) to be replaced.



- (8) Perform steps 4 to 7 in reverse order to attach the new switching regulator (s) to the rack power assembly (or DMBK-4008).

When the following switching regulator is replaced, adjust the output voltage as follows:

Switching regulator:

FAW05-30R (Sony parts number 1-413-956-11)

Output voltage adjustment

Equipment required: Volt-ohm-milliammeter
(Multi meter)

Procedure

- ① Pull the processor out of the rack.
- ② Remove the processor top panel.
(Refer to "3-2. Opening, Closing and Removal of Covers" in MAINTENANCE MANUAL Part 1.)
- ③ Remove the four canoe clips and remove the power supply cover from the rack power assembly (or DMBK-4008).
- ④ Turn on the power of the processor. Adjust the output voltage on the MIX-16 board shown in the following figure to the specification using the tester.

Note: When DMBK-4010 or DMBK-4011 is installed, adjust MIX-16 board of the DMBK-4010 or DMBK-4011.

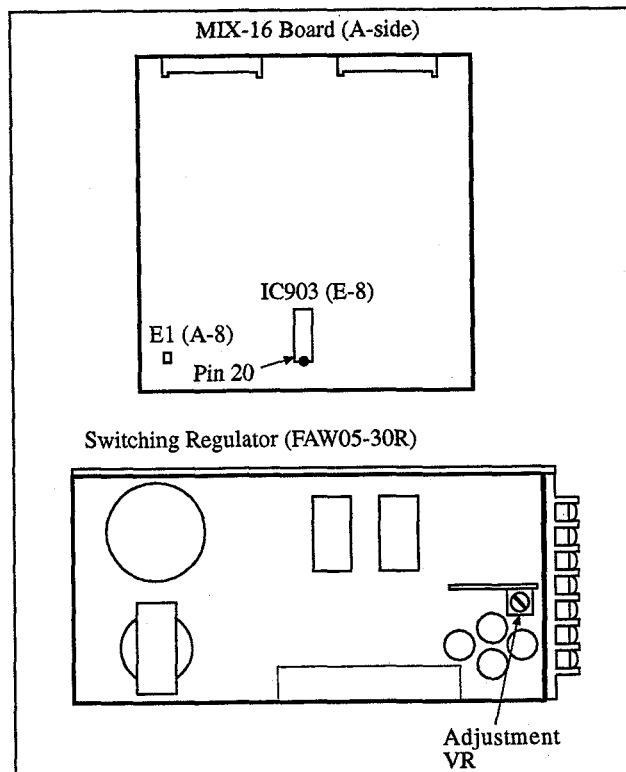
Specification: Voltage between E1 (GND) and pin 20 of IC903 on the MIX-16 board

When DMBK-4010/4011 is not installed,
Voltage = $+5.1 \pm 0.1$ Vdc

When DMBK-4010 is installed,
Voltage = $+4.9 \pm 0.1$ Vdc

When DMBK-4011 is installed,
Voltage = $+5.0 \pm 0.1$ Vdc

Adjustment: Adjustment VR/switching regulator
(FAW05-30R)



- (9) Perform steps ① to ③ in reverse order to attach the rack power assembly (or DMBK-4008).
After installed the rack power assy (or DMBK-4008), perform "2-6-1. PLL Adjustment".

1-1-5. Replacing Power Supply Fuse

There are fuses on the switching regulators shown in the following table. Eliminate possible causes of shorting such as foreign objects in the unit before replacing the fuses.

Note: Turn off the power and disconnect the power supply cord before replacing the fuses. Refer to sections 1-1-1 to 1-1-4.

Switching regulator (Parts number)	Fuse used	
	Rated voltage	Sony parts number
FAW12-2R1 (1-413-918-11)	250V 2.5A	1-532-826-11
FAW18-2R8 (1-413-918-11)	250V 3A	Pending
FAW05-20R (1-413-915-11)	250V 5A	Pending
MRW-171-1 (1-413-955-11)	250V 3.15A	1-576-133-11
FAW05-30R (1-413-956-11)	250V 6.3A	Pending

1-2. NOTES ON REPAIRING PARTS

1-2-1. Notes on Repairing Parts

(1) Safety Related Components Warning

Components marked Δ on the schematic diagrams, exploded views and electrical spare parts list are critical to safety. Replace only with the components specified.

(2) Standardization of Parts

Replacement parts supplied from the Sony Parts Center will sometimes have a different shape or external appearance from the parts originally used in the unit.

This is due to improvements, engineering changes, or standardization of parts.

This manual's exploded views and electrical parts lists indicate the part numbers of current standard parts.

(3) Stock of Parts

The parts marked with an "o" in the SP column are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow additional time for delivery.

(4) Units for Capacitors and Resistors

The following units are assumed in schematic diagrams, electrical parts lists and exploded views unless otherwise specified.

Capacitors : μF

Resistors : Ω

1-2-2. Replacing Chip Parts

Tools required

Soldering iron : 20 W

If possible, use a soldering-iron tip heat-controller set to $270 \pm 10^\circ C$.

Braided wire (Desoldering metal braid) :

SOLDER TAUL or equivalent

Sony part No. 7-641-300-81

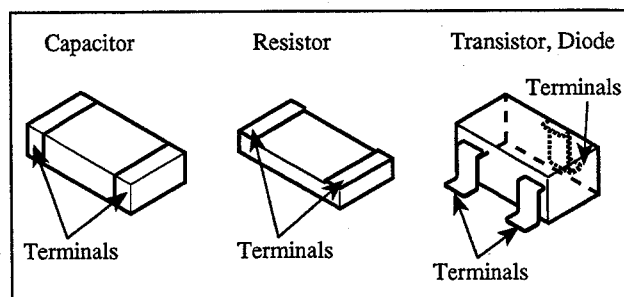
Solder : 0.6 mm dia. is recommended

Sharp-pointed tweezers

Soldering conditions

Soldering iron temperature : $270 \pm 10^\circ C$

Soldering time : two seconds per pin



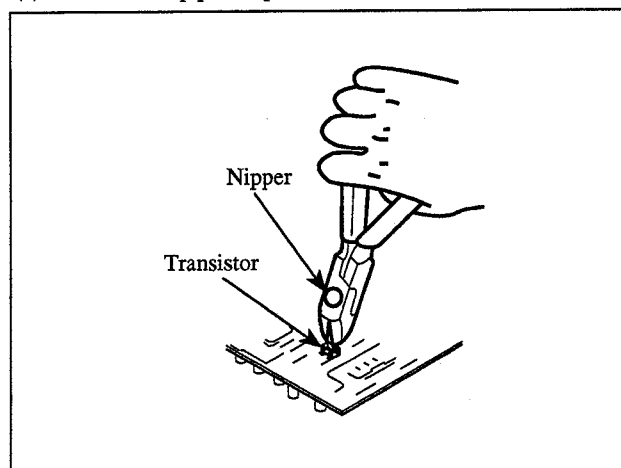
Replacing resistors and capacitors

- (1) Place the soldering-iron tip onto the chip part and heat it up until the solder melts.
When the solder melts, slide the chip part aside.
- (2) Make sure that there is no pattern peeling, damage and/or bridging around the desoldering position.
- (3) After removing the chip part, presolder the area in which the new chip is to be placed with a thin layer of solder.
- (4) Place new chip part in position and solder both ends.

Note: Do not reuse a chip part once it has been removed.

Replacing transistors and diodes

- (1) Cut the terminals of the chip part with nippers.
- (2) Remove the cut leads as above.
- (3) Make sure that there is no pattern peeling, damage and/or bridging around the desoldering positions.
- (4) After removing the chip part, presolder the area in which the new chip part is to be placed, with a thin layer of solder.
- (5) Place new chip part in position and solder the terminals.



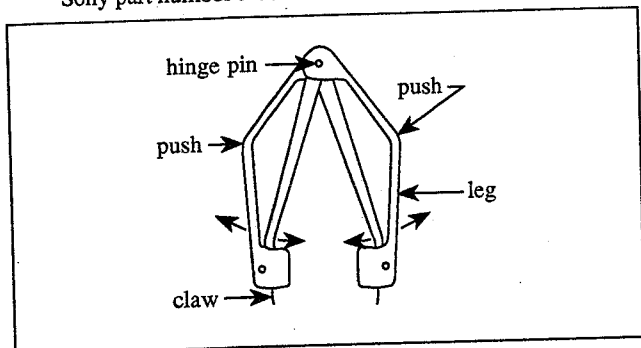
Replacement of ICs

- (1) Use the braided wire, remove the solder around the pins of the IC-chip.
- (2) While heating up the pins, remove them one by one using sharp-pointed tweezers.
- (3) Make sure that there is no pattern peeling, damage and/or bridge around the desoldering position.
- (4) After removing the chip part, presolder the area in which the new chip part is placed with a thin layer of solder.
- (5) Place new chip part in the desired position and solder the pins.

1-2-3. Removing of PLCC IC

The Extraction Tool is useful for removing the IC (PLCC type) inserted into an IC socket. This is useful for all sizes of ICs 20 pins through 124 pins.

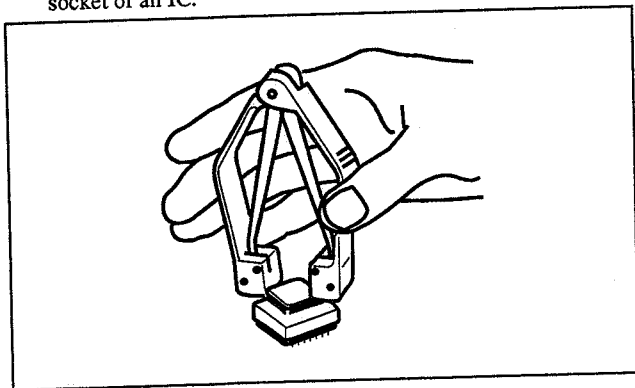
Extraction Tool (for PLCC socket)
Sony part number J-6035-070-A



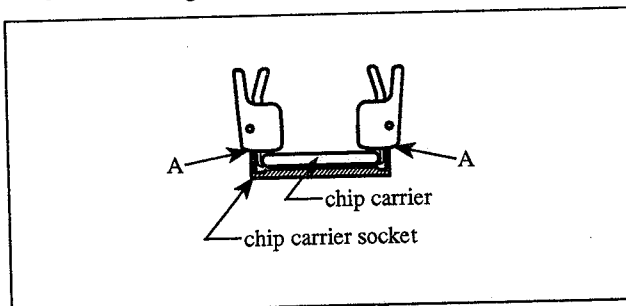
Note:

- Never pull chips of IC upward with the extraction tool.
- Never hold the extraction tool on a strong force.

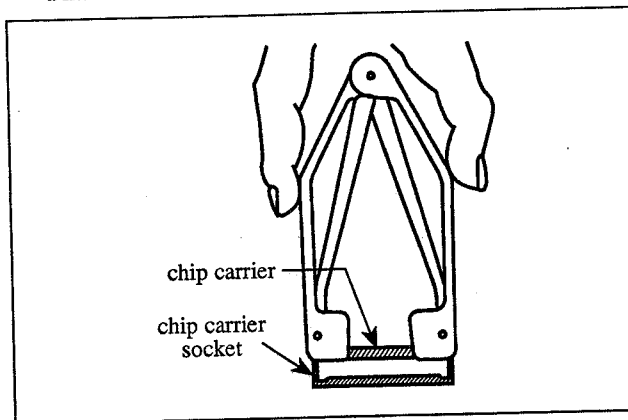
1. Adjust which so that the claws of the tool are matched to the socket of an IC.



2. Insert the claws of the tool into the slots of the socket, and then press the tool against the socket so that the A portion shown in the figure contact to the socket.



3. Hold the tool as shown in the figure. The socket is pressed on a little force to downward.



4. Pinch the tool, so the legs of the tool are straightened. At that time, the claws pinch the chips of the IC and pull the IC upward.
5. After pulling the IC, loosen the force of the fingers, and take off the chip.

1-2-4. Replacing TIME KEEPER RAM

DMX-B4008/B4016 and DMBK-4001 use a TIME KEEPER RAM (DS1634-150) which has a lithium battery to store the setup data.

Unit	Used in
DMX-B4008	IC204, CPU-145 board (CONSOLE)
DMX-B4016	IC204, CPU-145A board (CONSOLE)
DMBK-4001	IC202, CPU-146 board (CONTROL PANEL ASSY)

When the lithium battery becomes empty, the customized setup data is no longer stored. Therefore, replace the battery with a new one about every five years.

Part to be prepared

Time keeper RAM DS1643-150: Sony parts number 8-759-097-08

Procedure

DS1634-150 is mounted on the IC socket. Remove the RAM from the IC socket with tweezers and replace it with a new one.

Treatment after replacement

- (1) After replacing DS1643-150 (CPU-145/145A board) in the DMX-B4008/B4016, set the bit switches as follows before turning on the power of the console:

Set bit switch S103 on the CPU-145 (A) board as follows:

S103-1 switch: ON

S103-4 switch: ON

After setting the switches, turn on the power of the console.

- (2) After the CPU starts up, turn off the bit switches which were turned on in step 1 and turn off the power of the console.
- (3) Turn on the power of the console again and set up data to be customized.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

Check the metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 3.5 mA. Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 5.25 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 20 V AC range are suitable. (See Fig. A)

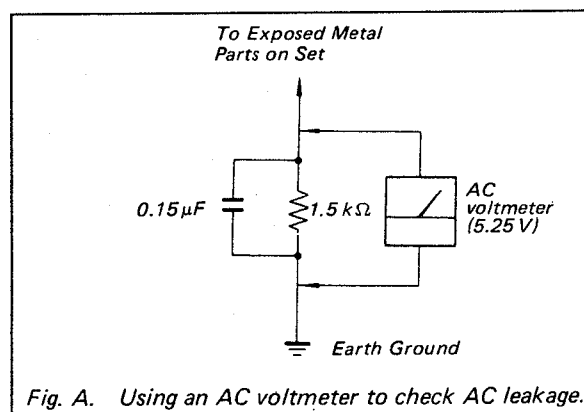


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 2

ELECTRICAL ADJUSTMENTS

This section describes the electrical alignment required during maintenance and repair of the following circuit boards.

Board	Description	Used for
MOA-7A/7B	2-2-1. Monitor Output Level Adjustment 2-2-2. Surround Monitor Output Level Adjustment 2-2-3. HEADPHONES Output Level Adjustment 2-2-4. Analog Meter Output Level Adjustment 2-2-5. Communication Level Adjustment	DMX-B4008/B4016 Console
CPU-164	2-3. PLL Adjustment	DMX-B4008 Processor
DIO-26	2-4. DA Converter Level Adjustment 1	DMX-B4008 Processor
CN-837	2-5. DA Converter Level Adjustment 2	DMX-B4008 Processor
CPU-144	2-6-1. PLL Adjustment 2-6-2. DA Converter Level Adjustment	DMX-B4016 Processor
AD-100 (DMBK-4012 installed)	2-7-1. MIC Amplifier Adjustment 2-7-2. LINE Amplifier Adjustment 2-7-3. INSERTION SEND/RETURN Amplifier Adjustment 2-7-4. DA Converter Level Adjustment	DMX-B4008/B4016 Console

2-1. PREPARATION

2-1-1. Tools and Equipment Required

Equipment Required

Name	Specifications	Equipment
Frequency counter	6 effective digits or more	HEWLETT PACKARD HP5313 or equivalent
Audio analyzer	- Oscillator Frequency range : 10 Hz to 100 kHz Output level : -70 to +30 dBs, balanced type - Level meter Measurement range : -70 to +30 dBs, balanced type	SOUND TECHNOLOGY ST-1710A or equivalent

Tools

Name	Sony Parts Number	Remarks
Extension board EX-360	J-6400-050-A	For DMX-B4008 Processor
Extension board EX-455	J-6401-190-A	For DMX-B4016 Processor
Dsub-XLR conversion cable	J-6401-180-A	For D/A converter level adjustment.
SONY ECD-3, ECD-10 or ECD-15	Optional accessory	For connecting digital audio (AES/EBU)
Adjustment driver (2 mm)	7-770-731-03	

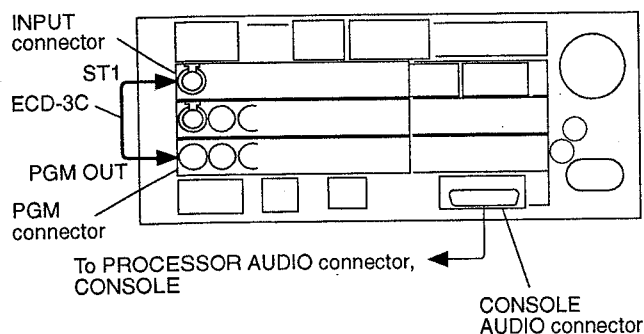
2-1-2. Initial Setting

Execute the following initial settings before starting the adjustment unless otherwise specified.

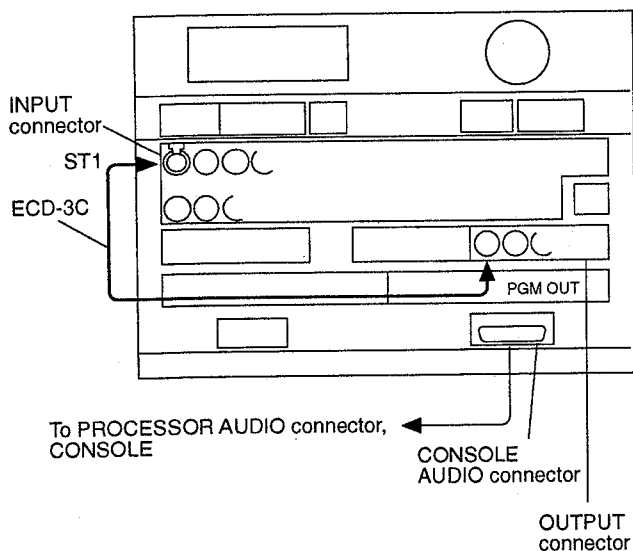
1. Connection

Connect the processor rear panel PGM OUT connector with the ST1 connector using the connection cable ECD-3C (cable for digital audio [AES/EBU]).

DMX-B4008



DMX-B4016



2. Initial settings of switches and controls

DMX-B4008/B4016 Meter Unit

Switch

AUTO : OFF

HOLD : OFF

DMX-B4008/B4016 Console

Channel Operation Panel (respective channel blocks)

Switch

ACCESS : OFF } (only one turns on)

MUTE : OFF

PFL : OFF

START : OFF

STOP : OFF

Control

Channel Fader : Display the DIAGNOSTICS screen of the Setup screen. Select the FADER/SWITCH operation check mode. Set the channel fader level to "B1". Refer to the OPERATION MANUAL, Section 3 "OPERATION" for details of the setup procedure.

Setup (touch) Panel

Display the following setup screen and execute the setup as follows:

For items other than those listed below, the setup is not restricted.

Refer to the OPERATION MANUAL, Section 3 "OPERATION" for details of the setup procedure.

SCENE screen

Set (register) scene 00.

INSERTION screen

INSERTION ON/OFF : OFF

MONITOR screen

MODE : ST (both CONTROL ROOM and STUDIO)

SOURCE : PGM (both CONTROL ROOM and STUDIO)

MT (METER)/OSC/TB screen

METER SELECT (DMX-B4016 only) : PGM, MIX1, AUX1

OSC : OFF

TB/ID : OFF

Master Operation (Monitor) Panel

COMMUNICATION block

SP LVL control : MAX
TB LVL control : MAX
SEND1, SEND2, SEND3 switch : MAX

STUDIO block

STUDIO monitor control
: MAX (turned fully clockwise)
CUE switch : OFF
CUT switch : OFF

CONTROL ROOM block

CONTROL ROOM monitor control
: MAX (turned fully clockwise)
ALT switch : OFF
CUT switch : OFF

HEADPHONES block

HEADPHONE control : MAX (turned fully clockwise)
Master Fader : position 0 (MAX)

Setting the Switches and Jumpers on the Console Circuit Boards

For the switches and jumpers on the following console boards, retain the current system setting.

- CPU-145, MOA-7A/B, IF-414 and KY-225 boards

DMX-B4008 Processor

For the switches and jumpers on the following processor boards, retain the current system setting.

- CPU-164, DIO-26 and MIX-15 boards
However, set all the de-emphasis processing of the input signal to AUTO mode (set all the switches S2-1 to S2-8 on MIX-15 board to off.)

DMX-B4016 Processor

For the switches and jumpers on the following processor boards, retain the current system setting.

- CPU-144, IPM-48 and MIX-16 boards
However, set all the de-emphasis processing of the input signal to AUTO mode (set all the switches S703-1 to S703-8, switches S704-1 to S704-8 and switches S705-3 to S705-4 on IPM-48 board to off.)

DMX-B4001 Processor

Control panel

This has no switches or controls that need to be set during adjustment.

CPU-146 board

Retain the current setting for the switches and jumpers.

DMBK-4012 (OPTION)

HA panel (20-bit MIC/LINE input module)

+48V switch : OFF
LINE switch : OFF
 ϕ switch : OFF
INS switch : OFF
MIC ON switch : ON
GAIN switch : 30 (dB)
TRIM control : mechanical center position

AD-100 board

Retain the current setting for the switches and jumpers.

2-2. MOA-7A/7B BOARD ADJUSTMENT (DMX-B4008/B4016 console)

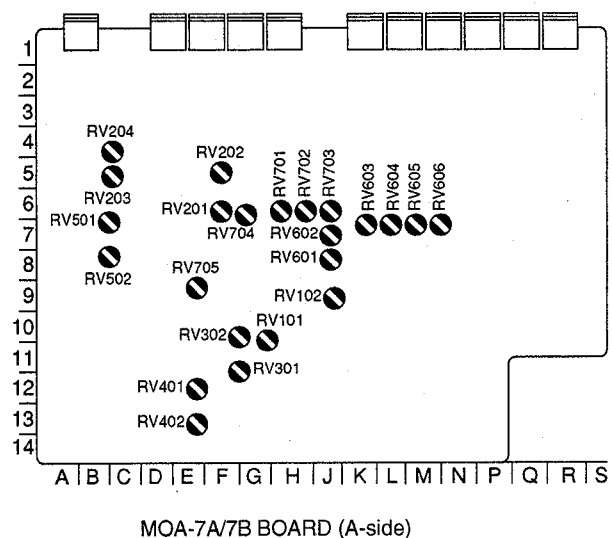
Preparation

Remove the touch panel assembly (console) keeping the harness connected, so that the MOA-7A/7B board can be adjusted from the console. Refer to the MAINTENANCE MANUAL Part 1 Section "3-7. Touch Panel/EL Display (Console) Replacement" for details of how to remove the touch panel assembly.

Equipment Required

Audio analyzer (audio level meter)

Adjustment Location



2-2-1. Monitor Output Level Adjustment

The output level of the following MONITOR outputs from the console is adjusted.

MONITOR output

- CONTROL ROOM MONITOR OUT L
- CONTROL ROOM MONITOR OUT R
- STUDIO MONITOR OUT SP-L
- STUDIO MONITOR OUT SP-R
- STUDIO MONITOR OUT HP-L
- STUDIO MONITOR OUT HP-R

Equipment Required

Audio level meter (audio analyzer)

Switches and Controls Setting

Same as Section "2-1-2. Initial Setting".

Adjustment Procedure

- (1) Display the MT/OSC/TB screen of the Setup screen. Set the OSC (output from the built-in oscillator) to the PGM output.
(The status indicator OSC of the meter unit turns on.)

- (2) Adjustment

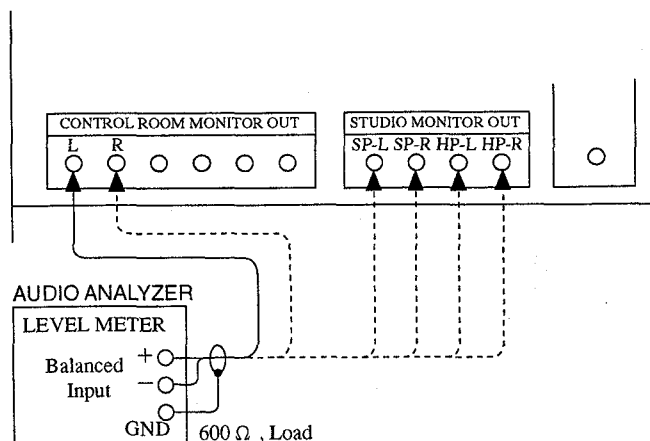
Adjustment	Adjustment Conditions	Specifications	Adjustment (MOA-7A/7B Board)
CONTROL ROOM MONITOR OUT L Output Level Adjustment	Connect the level meter (audio analyzer) to the CONTROL ROOM MONITOR OUT L connector.	Output level: +4.0 dBs ± 0.1 dB	RV101 (G,11)
CONTROL ROOM MONITOR OUT R Output Level Adjustment	Connect the level meter (audio analyzer) to the CONTROL ROOM MONITOR OUT R connector.	Output level: +4.0 dBs ± 0.1 dB	RV102 (J,9)
STUDIO MONITOR OUT SP-L Output Level Adjustment	Connect the level meter (audio analyzer) to the STUDIO MONITOR OUT SP-L connector.	Output level: +4.0 dBs ± 0.1 dB	RV201 (F,6)
STUDIO MONITOR OUT SP-R Output Level Adjustment	Connect the level meter (audio analyzer) to the STUDIO MONITOR OUT SP-R connector.	Output level: +4.0 dBs ± 0.1 dB	RV202 (F,5)
STUDIO MONITOR OUT HP-L Output Level Adjustment	Connect the level meter (audio analyzer) to the STUDIO MONITOR OUT HP-L connector.	Output level: +4.0 dBs ± 0.1 dB	RV203 (B,4)
STUDIO MONITOR OUT HP-R Output Level Adjustment	Connect the level meter (audio analyzer) to the STUDIO MONITOR OUT HP-R connector.	Output level: +4.0 dBs ± 0.1 dB	RV204 (B,4)

(0 dBs = 0.775 Vrms)

- (3) Upon completing the adjustment, set the OSC setting to off.
(The status indicator OSC of the meter unit turns off.)

Connection

CONSOLE Rear panel



2-2-2. Surround Monitor Output Level Adjustment

The output level of the following MONITOR outputs from the console is adjusted.

MONITOR output

- CONTROL ROOM MONITOR OUT C
- CONTROL ROOM MONITOR OUT S

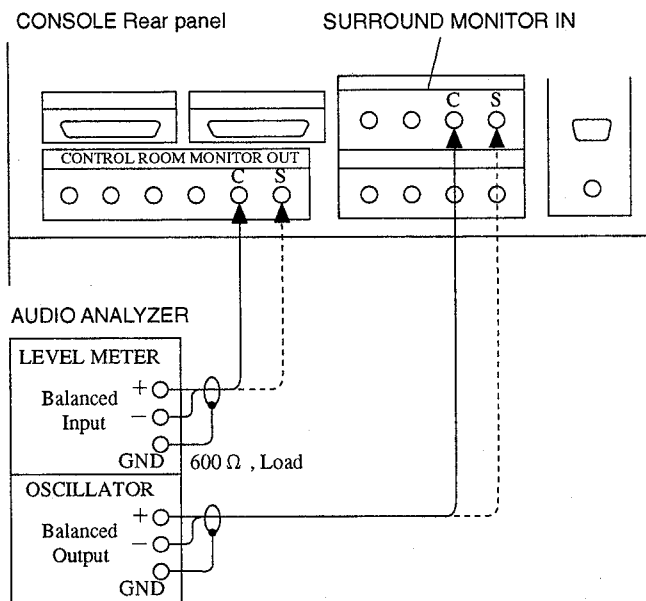
Equipment Required

Audio oscillator (audio analyzer)
Audio level meter (audio analyzer)

Switches and Controls Setting

Same as Section "2-1-2. Initial Setting".

Connection



Adjustment Procedure

- (1) Display the MONITOR screen of the Setup screen and select the SURR (surround) from the monitor mode.
- (2) Adjustment

Adjustment	Adjustment Conditions	Specifications	Adjustment (MOA-7A/7B Board)
CONTROL ROOM MONITOR OUT C Output Level Adjustment	• Connect the oscillator (audio analyzer) (1 kHz, +4 dBs signal output) to the SURROUND MONITOR IN C connector. • Connect the level meter (audio analyzer) to the CONTROL ROOM MONITOR OUT C connector.	Output level: +4.0 dBs $\pm$ 0.1 dB	RV301 (F,12)
CONTROL ROOM MONITOR OUT S Output Level Adjustment	• Connect the oscillator (audio analyzer) (1 kHz, +4 dBs signal output) to the SURROUND MONITOR IN S connector. • Connect the level meter (audio analyzer) to the CONTROL ROOM MONITOR OUT S connector.	Output level: +4.0 dBs $\pm$ 0.1 dB	RV302 (F,10)

(0 dBs = 0.775 Vrms)

- (3) Upon completing the adjustment, set the Monitor mode setting to the original setting before the adjustment.

2-2-3. HEADPHONES Output Level Adjustment

Equipment and Parts Required

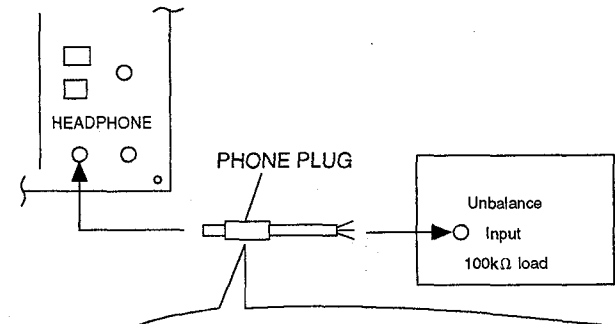
Audio level meter (audio analyzer)
Phone plug : 1

Switches and Controls Setting

Same as Section "2-1-2. Initial Setting" .

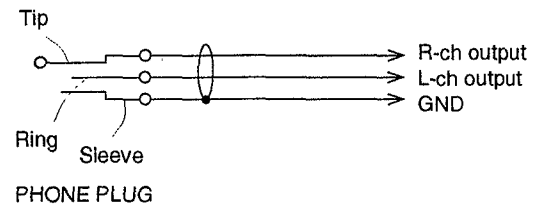
Connection

Master operation panel, console



Note : To connect a level meter to the HEADPHONES connector, locally manufacture the connecting cable as shown in the following diagram using a phone plug.

Wiring diagram



Adjustment Procedure

- (1) Display the MT/OSC/TB screen of the Setup screen and set the OSC (built-in oscillator output) to the PGM output. (The status indicator OSC on the meter unit turns on.)
- (2) Adjustment

Adjustment	Adjustment Conditions	Specifications	Adjustment (MOA-7A/7B Board)
Step 1 HEADPHONES L-ch, Output Level Adjustment	- Set the HEADPHONES control volume (master operation panel, console) to the MAX position. - Connect the level meter (audio analyzer) to the HEADPHONES connector L-ch output.	HEADPHONES L-ch output level: 0 dBs $\pm$ 0.1 dB	RV401 (E,12)
Step 2 HEADPHONES R-ch, Output Level Adjustment	- Set the HEADPHONES control volume (master operation panel, console) to MAX position. - Connect an audio level meter (audio analyzer) to the HEADPHONES connector R-ch output.	HEADPHONES R-ch output level: 0 dBs $\pm$ 0.1 dB	RV402 (E,13)

(0 dBs = 0.775 Vrms)

- (3) Upon completing the adjustment, set the OSC setting to off. (The status indicator OSC of the meter unit turns off.)

2-2-4. Analog Meter Output Level Adjustment

This section describes the analog meter output level adjustment when shipped from factory.

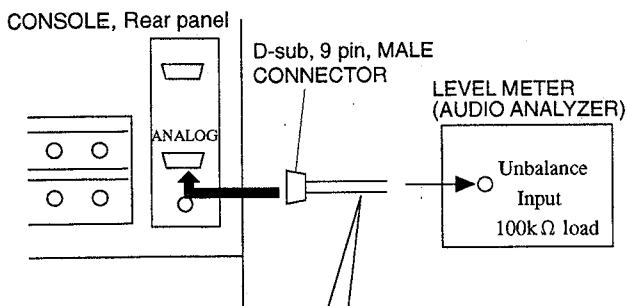
When the VU METER PANEL DMBK-4003 (option) or other meter is connected to the console ANALOG METER connector, and if calibration of the connected meter to the reference position (0 VU etc.) is required, adjust as follows.

Equipment and Parts Required

Audio level meter (audio analyzer)

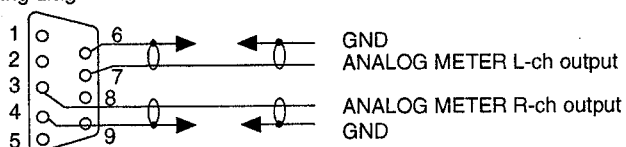
D-sub, 9-pin, male connector: 1

Connection



Note: To connect a level meter to the ANALOG METER connector (D-sub, 9-pin, female), locally manufacture the connecting cable as shown in the following diagram using a D-sub, 9-pin, male connector.

Wiring diagram



D-sub, 9-pin, male connector

—WIRING SIDE—

Switches and Controls Setting

Same as Section "2-1-2. Initial Setting".

Adjustment Procedure

- (1) Display the MT/OSC/TB screen of the Setup screen and set the OSC (built-in oscillator output) to the PGM output. (The status indicator OSC on the meter unit turns on.)

- (2) Adjustment

Specifications : ANALOG METER L-ch (pin-7)

output level = +4.0 dBs $\pm$ 0.1 dB
(factory setting)

ANALOG METER R-ch (pin-3)

output level = +4.0 dBs $\pm$ 0.1 dB
(factory setting)

Or

The indication level of the meter connected = reference point (0 VU, etc.)

Adjustment : L-ch = RV501/MOA-7 board (B, 7)

R-ch = RV502/MOA-7 board (B, 8)

- (3) Upon completing the adjustment, set the OSC setting to off.

(The status indicator OSC of the meter unit turns off.)

2-2-5. Communication Level Adjustment

This section describes the communication input and output level adjustment of the COMMUNICATION connector. When communication is established with external equipment using the COMMUNICATION connector, and when audio level does not match the external equipment, adjust the volume controls as described below.

Input and Output Level of the Communication to be Changed	Adjustment (MOA-7A/7B Board)
Talkback 1 output level	● RV603 (L, 7)
Talkback 2 output level	● RV604 (L, 7)
Talkback 3 output level	● RV605 (M, 7)
Talkback 1 interrupt level to studio monitor	● RV606 (M, 7)
Input level balance of built-in talkback mic and external talkback mic	Built-in talkback mic : ●RV601 (J, 8) External talkback mic : ●RV602 (J, 7)
Speaker level of the intercom receive 1 input	● RV701 (H, 6)
Speaker level of the intercom receive 2 input	● RV702 (H, 6)
Reverse talkback level from DMBK-4012 (option)	● RV703 (J, 6)
Intercom receive 1 and other interrupt level to headphone	● RV704 (G, 6)
Narration monitor level from DMBK-4012 (option)	● RV705 (E, 8)

The adjustment (setting) procedures when shipped from factory are described as follows.

Equipment and Parts Required

Audio level meter (audio analyzer)
Audio oscillator (audio analyzer)

D-sub, 37-pin, male connector : 1

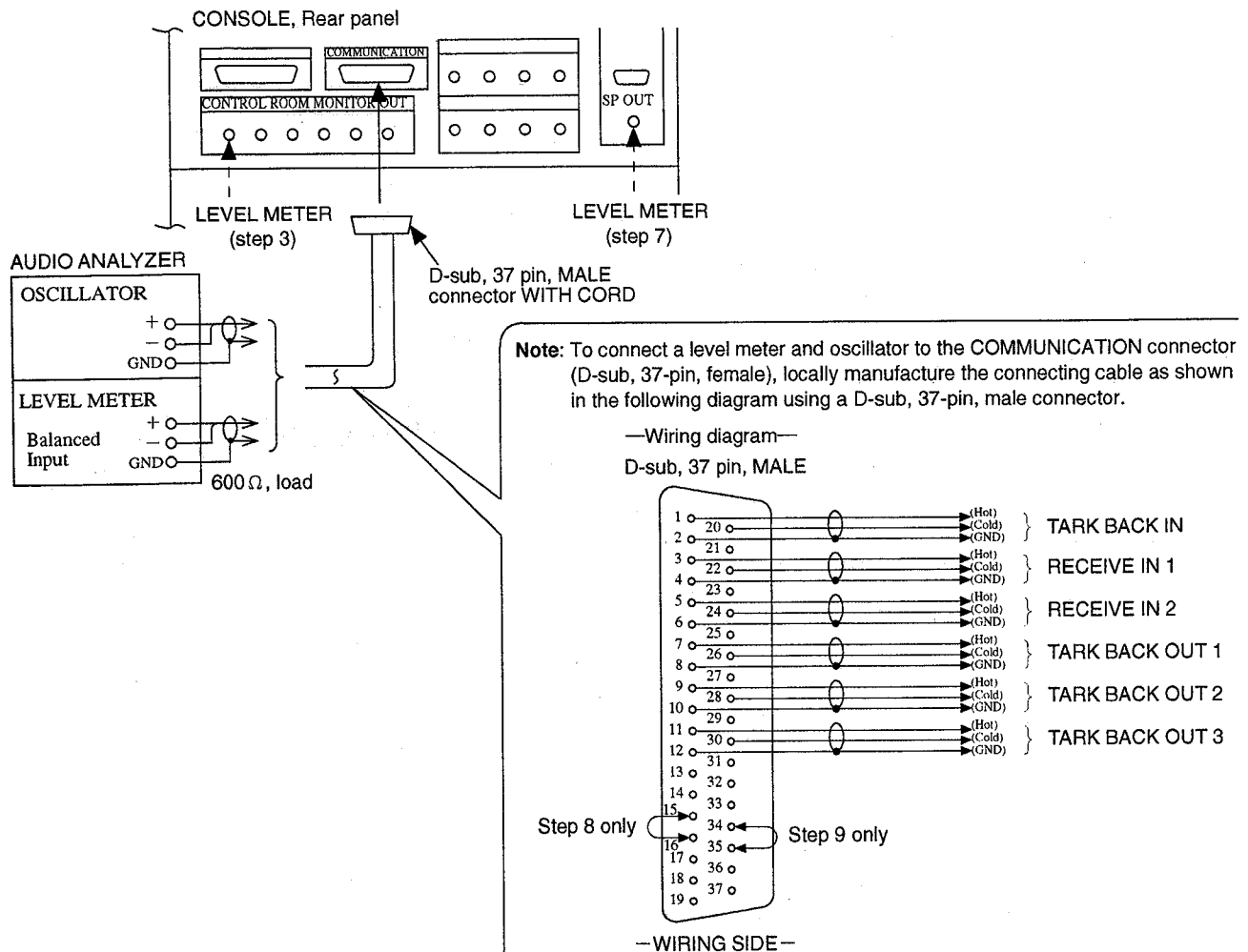
D-sub, 15-pin, male connector : 1

Switches and Controls Setting

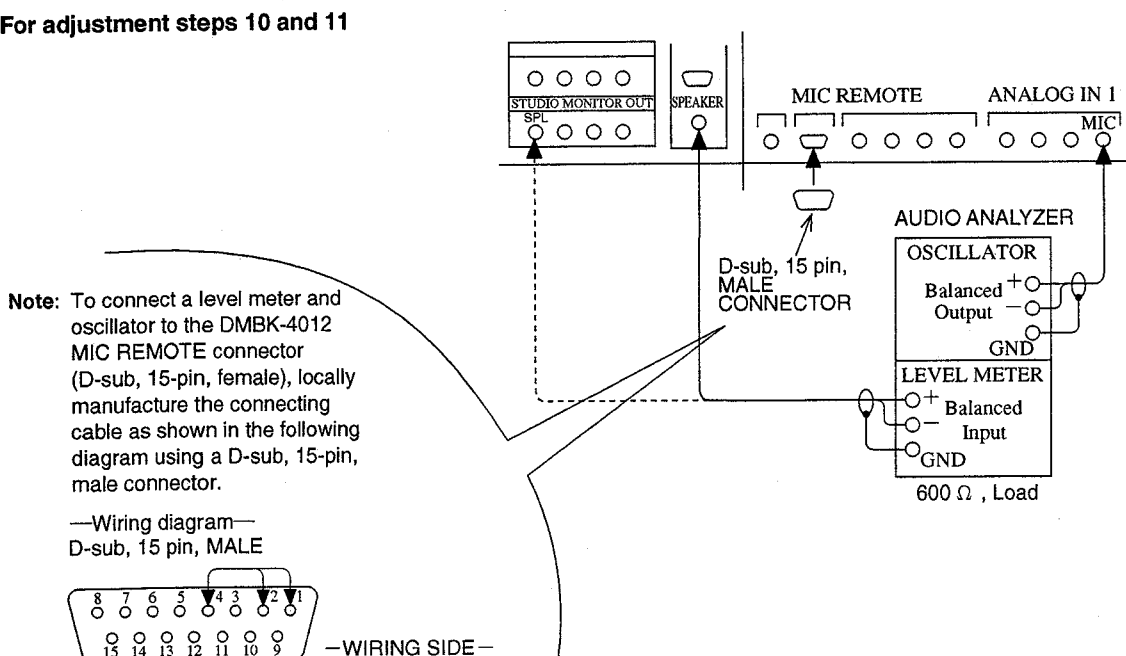
Same as Section "2-1-2. Initial Setting".

Connection

For adjustment steps 1 through 9



For adjustment steps 10 and 11



Adjustment Procedure

Note : 1. Execute the adjustment in the order of step number.

2. Adjustment steps 10 and 11 require DMBK-4012 (option) installed.

Adjustment	Adjustment Conditions	Specifications	Adjustment (MOA-7A/7B Board)
Step 1, Talkback out-1 output level adjustment	• Turn RV601 (J, 8) fully clockwise. • Turn RV602 (J, 7) fully clockwise. • Turn on the SEND-1 switch (master operation panel, console). • Connect the oscillator (audio analyzer) (1 kHz, +4 dBs balanced-type signal output) to the TALK BACK IN (pin-1: hot/pin-20: cold/pin-2: GND) of the COMMUNICATION connector. • Connect an audio level meter (analyzer) to the TALK BACK OUT 1 (pin-7: hot/pin-26: cold/pin-8: GND) of the COMMUNICATION connector.	TALK BACK OUT 1 output level: +24.0 dBs $\pm$ 0.1 dB	● RV603 (L, 7)
Step 2, External talkback microphone mix level adjustment	• Same as step 1.	TALK BACK OUT 1 output level : +14.0 dBs $\pm$ 0.1 dB	● RV602 (J, 7)
Step 3, Studio talkback output level adjustment	• Turn RV601 (J, 8) fully clockwise. • Turn on the SEND-1 switch (master operation panel, console). • Connect the oscillator (audio analyzer) (1 kHz, +4 dBs balanced-type signal output) to the TALK BACK IN (pin-1: hot/pin-20: cold/pin-2: GND) of the COMMUNICATION connector. • Connect the level meter (audio analyzer) to the STUDIO MONITOR OUT SP-L connector.	STUDIO MONITOR OUT SP-L output level: +14.0 dBs $\pm$ 0.2 dB	● RV606 (M, 7)
Step 4, Talkback out-2 output level adjustment	• Turn RV601 (J, 8) fully clockwise. • Turn on the SEND-2 switch (master operation panel, console). • Connect the oscillator (audio analyzer) (1 kHz, +4 dBs balanced-type signal output) to the TALK BACK IN (pin-1: hot/pin-20: cold/pin-2: GND) of the COMMUNICATION connector. • Connect the level meter (audio analyzer) to the TALK BACK OUT 2 (pin-9: hot/pin-28: cold/pin-10: GND) of the COMMUNICATION connector.	TALK BACK OUT 2 output level: +14.0 dBs $\pm$ 0.2 dB	● RV604 (L, 7)
Step 5, Talkback out-3 output level adjustment	The settings remain the same as step 4 except the followings: • Turn on the SEND-3 switch (master operation panel, console). • Connect the level meter (audio analyzer) to the TALK BACK OUT 3 (pin-11: hot/pin-30: cold/pin-12: GND) of the COMMUNICATION connector.	TALK BACK OUT 3 output level: +14.0 dBs $\pm$ 0.2 dB	● RV605 (M, 7)
Step 6, Built-in talkback microphone mix level adjustment	The settings remain the same as step 5 except the followings: • Remove any connection from the TALK BACK IN of COMMUNICATION connector.	• Set RV601 to the same position as RV602 of step 2 mechanically. • Check that output is present at the TALK BACK OUT 3.	● RV601 (J, 8)

(0 dBs = 0.775 Vrms)

Adjustment	Adjustment Conditions	Specifications	Adjustment (MOA-7A/7B Board)
Step 7, Intercom receive-1 mix level adjustment	- Set the SP LVL control (master operation panel, console) to the MAX. - Connect the oscillator (audio analyzer) (1 kHz, +4 dBs balanced-type signal output) to the RECEIVE IN 1 (pin-3: hot/pin-22: cold/pin-4: GND) of the COMMUNICATION connector. - Set the RECEIVE CMD IN 1 (pin-15) of the COMMUNICATION connector to "L". (Connect pin-15 and pin-16, GND) - Connect the level meter (audio analyzer) to the SPEAKER OUT connector (console, rear panel).	SPEAKER OUT output level: +12.0 dBs $\pm$ 0.2 dB	● RV701 (H, 6)
Step 8, Intercom mix level adjustment	- Set the HEADPHONES control (master operation panel, console) to the MAX. - Connect the oscillator (audio analyzer) (1 kHz, +4 dBs balanced-type signal output) to the RECEIVE IN 1 (pin-3: hot/pin-22: cold/pin-4: GND) of the COMMUNICATION connector. - Set the RECEIVE CMD IN 1 (pin-15) of the COMMUNICATION connector to "L". (Connect pin-15 and pin-16, GND) - Connect the level meter (audio analyzer) to the HEADPHONES (master operation panel, console) connector L-ch output. Refer to Section "2-2-4. HEADPHONES output level adjustment" for connection.	HEADPHONES connector L-ch output level: 0 dBs $\pm$ 0.2 dB	● RV704 (G, 6)
Step 9, Intercom receive-2 mix level adjustment	- Set the SP LVL control (master operation panel, console) to the MAX. - Connect the oscillator (audio analyzer) (1 kHz, +4 dBs balanced-type signal output) to the RECEIVE IN 2 (pin-5: hot/pin-24: cold/pin-6: GND) of the COMMUNICATION connector. - Set the RECEIVE CMD IN 2 (pin-34) of the COMMUNICATION connector to "L". (Connect pin-34 and pin-35, GND) - Connect the level meter (audio analyzer) to the SPEAKER OUT connector (console, rear panel).	SPEAKER OUT output level: +12.0 dBs $\pm$ 0.2 dB	● RV702 (H, 6)
Step 10, Reverse talkback mix level adjustment	- Connect the oscillator (audio analyzer) (1 kHz, -30 dBs balanced-type signal output) to the MIC connector of DMBK-4012, ANALOG IN 1 panel (console, rear panel). - Set the REVERSE TALK BACK CMD IN 1 (pin-2) and MIC ON CMD IN 1 (pin-1) of the MIC REMOTE connector of DMBK-4012, ANALOG IN 1 panel (console, rear panel) to "L". (Connect pin-1 and pin-2 to pin-4, GND.) - Connect the level meter (audio analyzer) to the SPEAKER OUT connector (console, rear panel).	SPEAKER OUT output level: +12.0 dBs $\pm$ 0.2 dB	● RV703 (J, 6)
Step 11, Narration monitor mix level adjustment	- Display the NARRATION SOURCE/PFL LOGIC screen of the setup screen, and select the NARRATION SOURCE. - Connect the oscillator (audio analyzer) (1 kHz, -30 dBs balanced-type signal output) to the MIC connector of DMBK-4012, ANALOG IN 1 panel (console, rear panel). - Connect the level meter (audio analyzer) to the STUDIO MONITOR OUT connector (console, rear panel).	STUDIO MONITOR OUT SPL output level: +4.0 dBs $\pm$ 0.1 dB	● RV705 (E, 8)

(0 dBs = 0.775 Vrms)

2-3. PLL Adjustment (CPU-164 Board, DMX-B4008 Processor)

This section describes the PLL adjustment which is the basis of the sampling frequency for entire system.

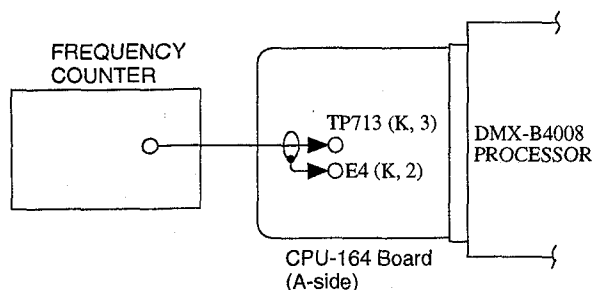
Equipment Required

Frequency counter
Extension board EX-360: Sony parts number J-6400-050-A

Preparation

- (1) Extend CPU-164 board using the extension board EX-360.
- (2) Remove all connections from the REF VIDEO IN connector of the processor.

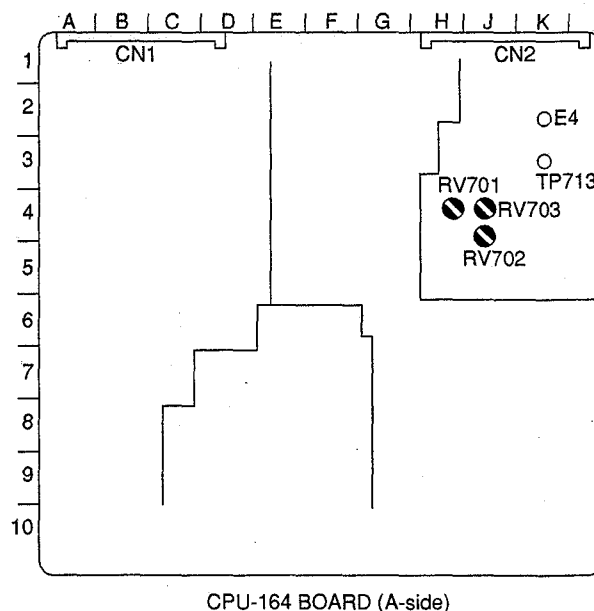
Connection



Switches and Controls Setting

Same as Section "2-1-2. Initial Setting".

Adjustment Location



Adjustment Procedure

- (1) Connect a frequency counter to TP713/CPU-164 board (K, 3) and E4/CPU-164 board (K, 2).
- (2) Set the system clock setting switches S501-1/-2/-3 of CPU-164 board as shown below. Adjust RV701, RV702 and RV703 until the frequency at TP713 meets the following specifications.

S501			Sampling frequency	Specifications	Adjustment (CPU-164 board)
-1	-2	-3			
ON	OFF	OFF	48.0 kHz	4.8000 MHz $\pm$ 40 Hz	● RV701(H, 4)
OFF	ON	OFF	44.1 kHz	4.4100 MHz $\pm$ 40 Hz	● RV702(J, 4)
OFF	OFF	ON	44.056 kHz	4.4056 MHz $\pm$ 40 Hz	● RV703(J, 4)

2-4. DA CONVERTER LEVEL ADJUSTMENT 1 (DIO-26 Board, DMX-B4008 Processor)

This section describes the DA converter adjustment for CONTROL ROOM MONITOR and STUDIO MONITOR.

Equipment and Tools Required

Audio level meter (audio analyzer)

Extension board EX-360: Sony parts number J-6400-050-A

Dsub-XLR conversion cable: Sony parts number J-6401-180-A

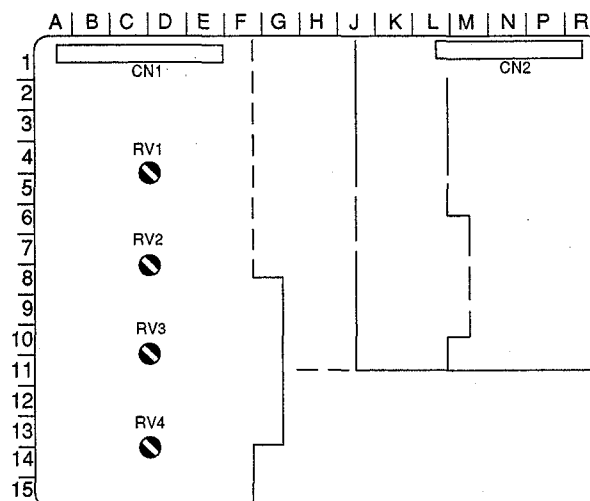
Preparation

- (1) Extend DIO-26 board using the extension board EX-360.
- (2) Remove all connections from the CONSOLE AUDIO connector of the processor and connect the Dsub-XLR conversion cable instead.

Switches and Controls Setting

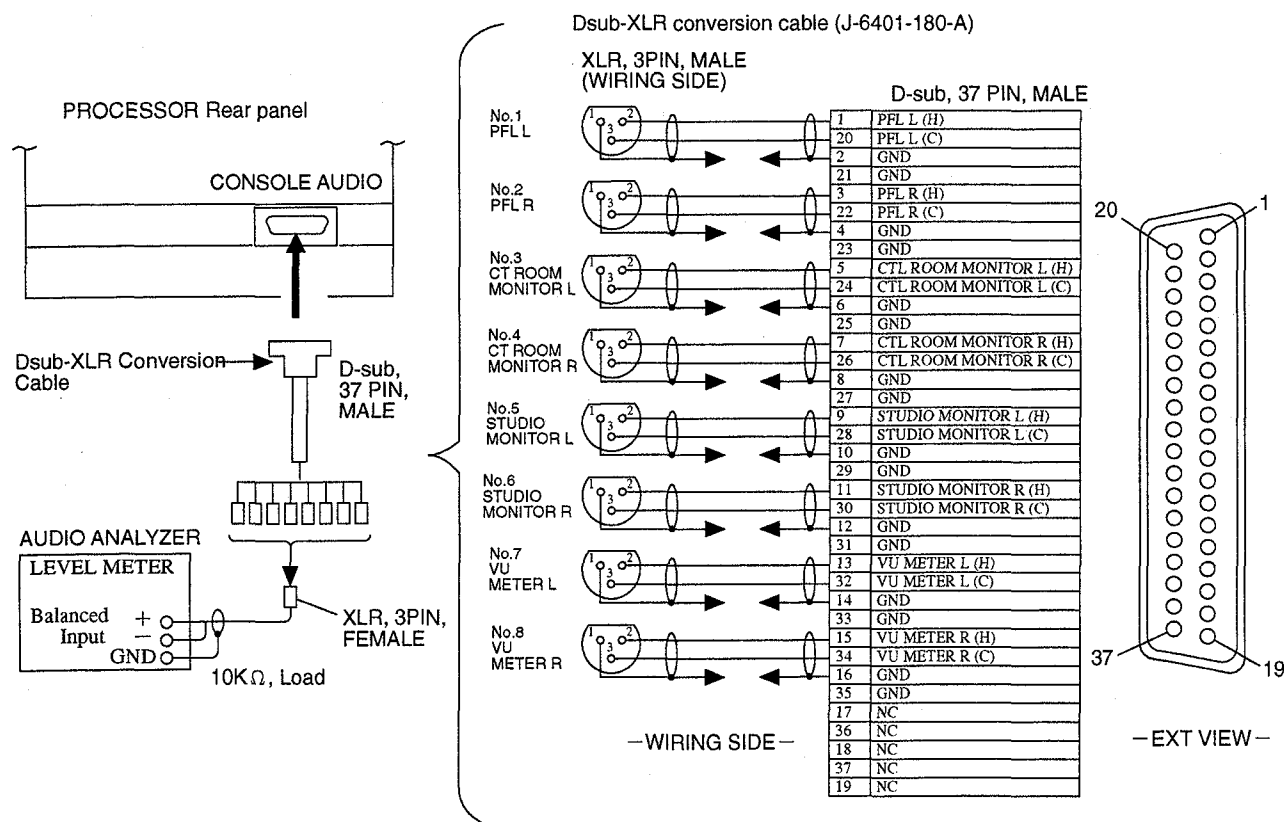
Same as Section "2-1-2. Initial Setting".

Adjustment Location



DIO-26 BOARD (A-side)

Connection



Adjustment Procedure

- (1) Display the MT/OSC/TB screen of the Setup screen and set the OSC (built-in oscillator output) to the PGM output.
(The status indicator OSC on the meter unit turns on.)
- (2) Adjustment

Adjustment	Adjustment Conditions	Specifications	Adjustment (DIO-26 Board)
CONTROL ROOM MONITOR OUT L Converter Level Adjustment	Connect the level meter (audio analyzer) to No.3 cable (CTL RM MONITOR L) of the Dsub-XLR conversion cable.	DA converter level: +4 dBs $\pm$ 0.1 dB	● RV1 (D, 9)
CONTROL ROOM MONITOR OUT R Converter Level Adjustment	Connect the level meter (audio analyzer) to No.4 cable (CTL RM MONITOR R) of the Dsub-XLR conversion cable.	DA converter level: +4 dBs $\pm$ 0.1 dB	● RV2 (D, 7)
STUDIO MONITOR L Converter Level Adjustment	Connect the level meter (audio analyzer) to No.5 cable (STUDIO MONITOR L) of the Dsub-XLR conversion cable.	DA converter level: +4.0 dBs $\pm$ 0.1 dB	● RV3 (D, 10)
STUDIO MONITOR R Converter Level Adjustment	Connect the level meter (audio analyzer) to No.6 cable (STUDIO MONITOR R) of the Dsub-XLR conversion cable.	DA converter level: +4.0 dBs $\pm$ 0.1 dB	● RV4 (D, 13)

(0 dBs = 0.775 Vrms)

- (3) Upon completing the adjustment, set the OSC setting to off.
(The status indicator OSC of the meter unit turns off.)

2-5. DA CONVERTER LEVEL ADJUSTMENT 2 (CN-837 Board, DMX-B4008 Processor)

This section describes the DA converter adjustment for PFL.

Equipment and Parts Required

Audio level meter (audio analyzer)

Dsub-XLR conversion cable : Sony parts number J-6401-180-A

Preparation

Remove all connections from the CONSOLE AUDIO connector of the processor and connect the Dsub-XLR conversion cable instead.

Connection

Same as section "2-2-5. Communication Level Adjustment".

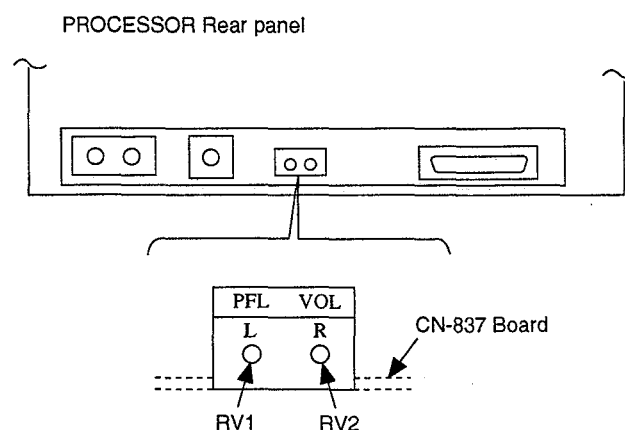
Switches and Controls Setting

Same as Section "2-1-2. Initial Setting".

Adjustment Procedure

- (1) Display the MT/OSC/TB screen of the Setup screen and set the OSC (built-in oscillator output) to the PGM output.
(The status indicator OSC on the meter unit turns on.)
- (2) Turn on the PFL switch of the CH-1 channel operation block of the channel operation panel.
(The status indicator PFL of the meter unit turns on.)
- (3) Adjustment

Adjustment Location



Adjustment	Adjustment Conditions	Specifications	Adjustment (CN-837 Board)
PFL L Converter Level Adjustment	Connect the level meter (audio analyzer) to No.1 cable (PFL L) of the Dsub-XLR conversion cable.	DA converter level: +4.0 dBs $\pm$ 0.1 dB	● RV1 Execute adjustment through the adjustment opening on the rear panel.
PFL R Converter Level Adjustment	Connect the level meter (audio analyzer) to No.2 cable (PFL R) of the Dsub-XLR conversion cable.	DA converter level: +4.0 dBs $\pm$ 0.1 dB	● RV2 Execute adjustment through the adjustment opening on the rear panel.

(0 dBs = 0.775 Vrms)

- (4) Upon completing the adjustment, set the OSC setting to off.
(The status indicator OSC of the meter unit turns off.)

2-6. CPU-144 Board Adjustment (DMX-B4016 Processor)

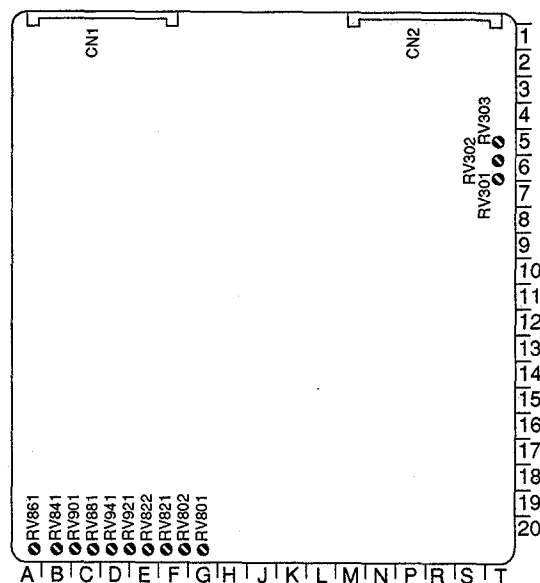
Equipment and Parts Required

Frequency counter
Audio level meter (audio analyzer)
Extension board EX-455: Sony parts number J-6401-190-A
Dsub-XLR conversion cable: Sony parts number J-6401-180-A

Preparation

Extend CPU-144 board using the extension board EX-455.

Adjustment Points



CPU-144 BOARD (A-side)

2-6-1. PLL Adjustment

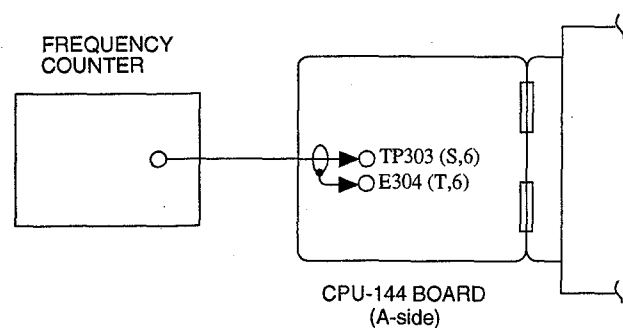
This section describes PLL adjustment which is the basis for the sampling frequency of entire system.

Connection

Note : Remove the connection from the REF VIDEO INPUT connector of processor.

Switches and Controls Setting

Same as Section "2-1-2. Initial Setting".



Adjustment Procedure

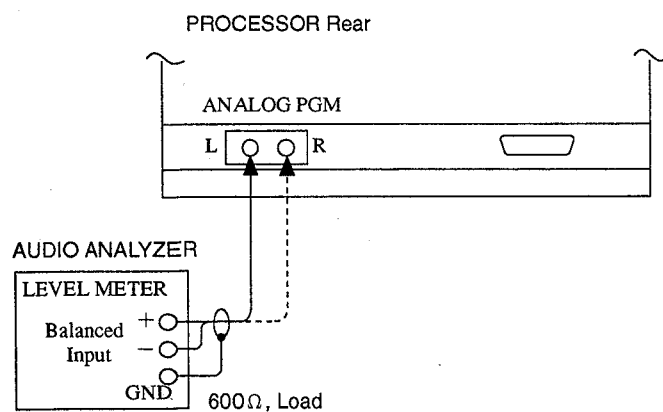
- (1) Connect the frequency counter to TP303/CPU-144 board (S, 6) and E304/CPU-144 board (T, 6).
- (2) Set the system clock setting switches S501-1/-2/-3 of CPU-144 board as shown below. Adjust RV301, RV302 and RV303 until the frequency at TP303 meets the following specifications.

S501			Sampling frequency	Specifications	Adjustment (CPU-144 board)
-1	-2	-3			
ON	OFF	OFF	48.0 kHz	4.8000 MHz $\pm$ 40 Hz	RV303(T4)
OFF	ON	OFF	44.1 kHz	4.4100 MHz $\pm$ 40 Hz	RV302(T5)
OFF	OFF	ON	44.056 kHz	4.4056 MHz $\pm$ 40 Hz	RV301(T4)

2-6-2. DA Converter Level Adjustment 1

This section describes the DA converter adjustment for the ANALOG PGM OUT.

Connection



Switches and Controls Setting

Same as Section "2-1-2. Initial Setting".

Adjustment Procedure

- (1) Display the MT/OSC/TB screen of the Setup screen and set the OSC (built-in oscillator output) to the PGM output. (The status indicator OSC on the meter unit turns on.)
- (2) Adjustment

Adjustment	Adjustment Conditions	Specifications	Adjustment (CPU-144 Board)
ANALOG PGM L DA Converter Level Adjustment	Connect the level meter (audio analyzer) to the ANALOG PGM L connector.	DA converter level: +4.0 dBs $\pm$ 0.1 dB	● RV801 (F, 20)
ANALOG PGM R DA Converter Level Adjustment	Connect the level meter (audio analyzer) to the ANALOG PGM R connector.	DA converter level: +4.0 dBs $\pm$ 0.1 dB	● RV821 (E, 20)

(0 dBs = 0.775 Vrms)

- (3) Upon completing the adjustment, set the OSC setting to off. (The status indicator OSC of the meter unit turns off.)

2-6-3. DA Converter Level Adjustment 2

This section describes the DA converter adjustment of the analog signal (CONTROL, STUDIO MONITOR, etc..) to be sent to console.

Connection

Same as Section "2-2-5. Communication Level Adjustment".

Preparation

Remove the cable from the CONSOLE AUDIO connector of processor, and connect the Dsub-XLR conversion cable instead.

Switches and Controls Setting

Same as Section "2-1-2. Initial Setting".

Adjustment Procedure

- (1) Display the MT/OSC/TB screen of the Setup screen and set the OSC (built-in oscillator output) to the PGM output.
(The status indicator OSC on the meter unit turns on.)
- (2) Turn on the PFL switch of the CH-1 channel operation block of the channel operation panel.
(The status indicator PFL of the meter unit turns on.)
- (3) Adjustment

Adjustment	Adjustment Conditions	Specifications	Adjustment (CPU-144 Board)
VU METER L DA Converter Level Adjustment	Connect the level meter (audio analyzer) to No.7 cable (VU METER L) of the Dsub-XLR conversion cable.	DA converter level: +4.0 dBs $\pm$ 0.1 dB	● RV802 (F, 20)
VU METER R DA Converter Level Adjustment	Connect the level meter (audio analyzer) to No.8 cable (VU METER R) of the Dsub-XLR conversion cable.	DA converter level: +4.0 dBs $\pm$ 0.1 dB	● RV821 (E, 20)
CONTROL ROOM MONITOR L DA Converter Level Adjustment	Connect the level meter (audio analyzer) to No.3 cable (CTL RM MONITOR L) of the Dsub-XLR conversion cable.	DA converter level: +4.0 dBs $\pm$ 0.1 dB	● RV881 (C, 20)
CONTROL ROOM MONITOR R DA Converter Level Adjustment	Connect the level meter (audio analyzer) to No.4 cable (CTL RM MONITOR R) of the Dsub-XLR conversion cable.	DA converter level: +4.0 dBs $\pm$ 0.1 dB	● RV901 (C, 20)
STUDIO MONITOR L DA Converter Level Adjustment	Connect the level meter (audio analyzer) to No.5 cable (STUDIO MONITOR L) of the Dsub-XLR conversion cable.	DA converter level: +4.0 dBs $\pm$ 0.1 dB	● RV921 (D, 20)
STUDIO MONITOR R DA Converter Level Adjustment	Connect the level meter (audio analyzer) to No.6 cable (STUDIO MONITOR R) of the Dsub-XLR conversion cable.	DA converter level: +4.0 dBs $\pm$ 0.1 dB	● RV941 (D, 20)
PFL L DA Converter Level Adjustment	Connect the level meter (audio analyzer) to No.1 cable (PRL L) of the Dsub-XLR conversion cable.	DA converter level: +4.0 dBs $\pm$ 0.1 dB	● RV841 (B, 20)
PFL R DA Converter Level Adjustment	Connect the level meter (audio analyzer) to No.2 cable (PRL R) of the Dsub-XLR conversion cable.	DA converter level: +4.0 dBs $\pm$ 0.1 dB	● RV861 (B, 20)

(0 dBs = 0.775 Vrms)

- (4) Upon completing the adjustment, set the OSC setting to off.
(The status indicator OSC of the meter unit turns off.)

2-7. AD-100 BOARD ADJUSTMENT (when DMBK-4012 is installed)

This section describes adjustment of the DMBK-4012 MIC amplifier, LINE amplifier, INSERT SEND/RETURN amplifier and D/A converter.

Preparation

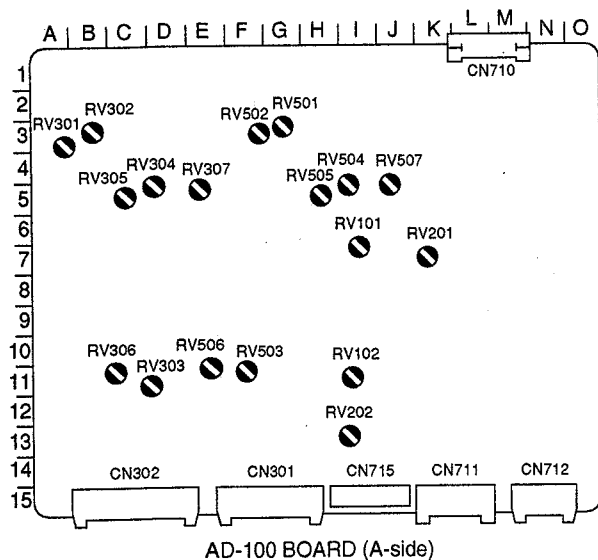
Execute the following preparation prior to starting adjustment, with the power to the console turned off.

- (1) Remove the AD-100 board of the DMBK-4012 to be adjusted from the console.
(Refer to the MAINTENANCE MANUAL Part 1 Section "2-12. DMBK-4012 20-BIT MIC/LINE Input Module Installation" for details of how to remove the board.)
- (2) Remove the shield plate from the unplugged AD-100 board (A side).
- (3) Install the AD-100 board (with the shield plate removed) to the console, keeping the harness connected.
- (4) Remove the channel panel assembly of the channel frame (console) housing the AD-100 board to be adjusted, keeping the harness connected to allow access to the AD-100 for adjustment.

Equipment Required

Audio oscillator (audio analyzer)
Audio level meter (audio analyzer)
DC voltmeter (or multimeter)

Adjustment Location

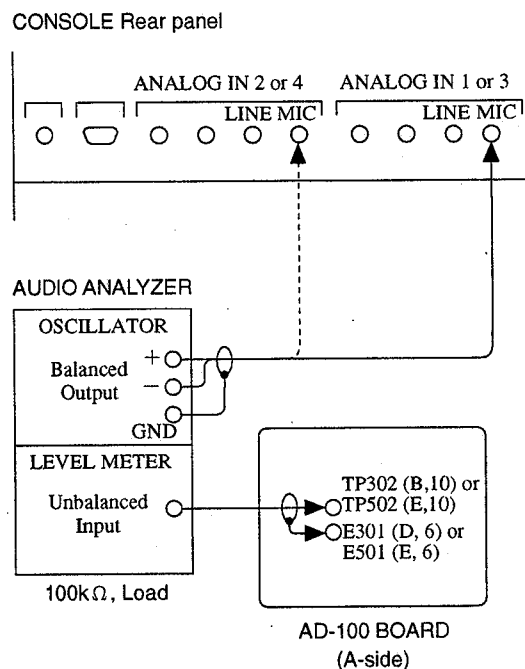


2-7-1. MIC Amplifier Adjustment

Equipment Required

Audio oscillator (audio analyzer)
Audio level meter (audio analyzer)

Connection



Switches and Controls Setting

Same as Section "2-1-2. Initial Setting".

Adjustment

- Execute the following adjustment in the order of step number.
- Repeat the steps 2 and 3, and 6 and 7 twice repeatedly.

Step	Adjustment	Adjustment Conditions	Specifications	Adjustment (AD-100 Board)
1	MIC1 Input Level Adjustment	• Connect the oscillator (audio analyzer) (1 kHz, -30 dBs signal output) to the MIC IN 1 connector (ANALOG IN1 (or 3)). • Connect the level meter (audio analyzer) to the following point of AD-100 board. TP302 (B, 10) E301 (D, 6) (GND)	TP302 (B, 10) level: -6.0 dBs $\pm$ 0.1 dB	● RV303 (D, 11)
2	MIC1 CMRR High Frequency Adjustment Note :Repeat steps 2 and 3 twice.	• Same as step 1.	TP302 (B, 10) level: minimum level	● RV302 (B, 4)
3	MIC1 CMRR Low Frequency Adjustment	• Same as step 1. Change the oscillator output to 60 Hz, -30 dBs signal.	TP302 (B, 10) level: minimum level	● RV301 (B, 3)
4	MIC1 Peak Indicator Adjustment Converter Level Adjustment	• Connect the oscillator (audio analyzer) (1 kHz, -21 dBs signal output) to the MIC IN 1 connector.	HA PANEL (DMBK-4012) PK indicator: turns on	● RV306 (C, 4)
5	MIC2 Input Level Adjustment	• Connect the oscillator (audio analyzse) (1 kHz, -30 dBs signal output) to the MIC IN 2 connector (ANALOG IN2 (or 4)). • Connect the level meter (audio analyzer) to the following point of AD-100 board. TP502 (E, 10) E501 (E, 6) (GND)	TP502 (B, 10) level: -6.8 dBs $\pm$ 0.1 dB	● RV503 (F, 11)
6	MIC2 CMRR High Frequency Adjustment Note :Repeat steps 6 and 7 twice.	• Same as step 5.	TP502 (E, 10) level: minimum level	● RV502 (F, 4)
7	MIC2 CMRR Low Frequency Adjustment	• Same as step 5. Change the oscillator output to 60 Hz, -30 dBs signal.	TP502 (E, 10) level: minimum level	● RV501 (G, 3)
8	MIC2 Peak Indicator Adjustment	• Connect the oscillator (audio analyzer) (1 kHz, -21 dBs signal output) to the MIC IN 2 connector.	HA PANEL (DMBK-4012) PK indicator: turns on	● RV506 (E, 11)

(0 dBs = 0.775 Vrms)

2-7-2. LINE Amplifier Adjustment

Equipment Required

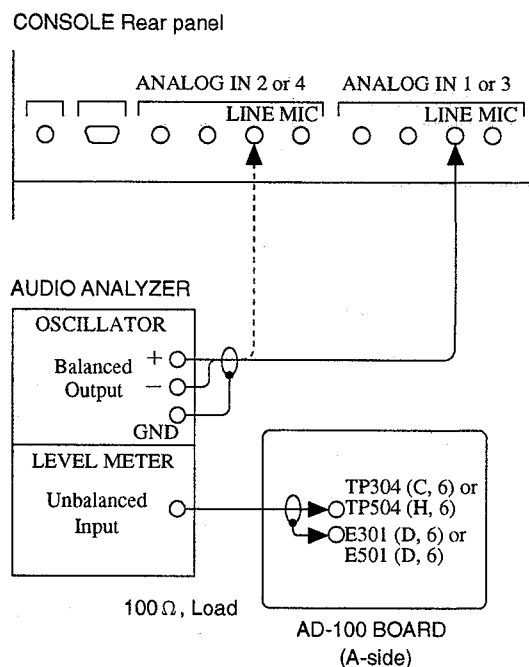
- Audio oscillator (audio analyzer)
- Audio level meter (audio analyzer)

Switches and Controls Setting

Same as Section "2-1-2. Initial Setting" except the following setting

- HA panel (DMBK-4012)
- LINE switch: ON

Connection



Adjustment

Step	Adjustment	Adjustment Conditions	Specifications	Adjustment (AD-100 Board)
1	LINE1 Input Level Adjustment	- Connect the oscillator (audio analyzer) (1 kHz, -30 dBs signal output) to the LINE IN 1 connector (ANALOG IN1 (or 3) panel). - Connect the level meter (audio analyzer) to the following point of AD-100 board. TP304 (C, 6) E301 (D, 6) (GND)	TP304 (C, 10) level: -6.0 dBs $\pm$ 0.1 dB	RV305 (C, 6)
2	LINE2 Input Level Adjustment	- Connect the oscillator (audio analyzer) (1 kHz, -30 dBs signal output) to the LINE IN 2 connector (ANALOG IN2 (or 4) panel). - Connect the level meter (audio analyzer) to the following point of AD-100 board. TP504 (H, 6) E501 (D, 6) (GND)	TP504 (H, 6) level: -6.0 dBs $\pm$ 0.1 dB	RV505 (H, 6)

(0 dBs = 0.775 Vrms)

2-7-3. INSERTION SEND/RETURN Amplifier Adjustment

Equipment Required

- Audio oscillator (audio analyzer)
- Audio level meter (audio analyzer)

Switches and Controls Setting

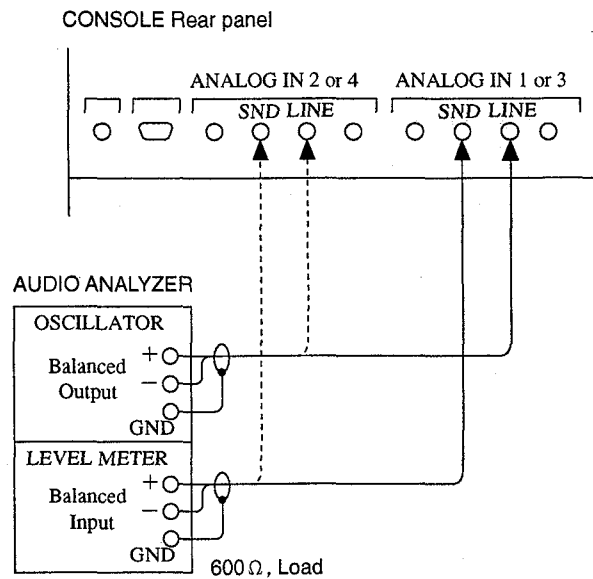
Same as Section "2-1-2. Initial Setting" except the following setting

HA panel (DMBK-4012)

LINE switch : ON (both 1 and 2)

INS switch : ON (both 1 and 2)

Connection



Adjustment

Execute the following adjustment in the order of step number.

Step	Adjustment	Adjustment Conditions	Specifications	Adjustment (AD-100 Board)
1	SEND1 Level Adjustment	- Connect the oscillator (audio analyzer) (1 kHz, +4 dBs signal output) to the LINE IN 1 connector (ANALOG IN1 (or 3) panel). - Connect the level meter (audio analyzer) to the SND1 connector (ANALOG IN1).	SEND1 output level: +4.0 dBs $\pm$ 0.1 dB	● RV304 (D, 5)
2	SEND2 Level Adjustment	- Connect the oscillator (audio analyzer) (1 kHz, +4 dBs signal output) to the LINE IN 2 connector (ANALOG IN2 (or 4) panel). - Connect the level meter (audio analyzer) to the SND2 connector (ANALOG IN2).	SEND2 output level: +4.0 dBs $\pm$ 0.1 dB	● RV505 (I, 5)
3	RETURN1 Level Adjustment	- Connect the oscillator (audio analyzer) (1 kHz, +4 dBs signal output) to the RTN 1 connector (ANALOG IN 1 (or 3) panel). - Connect the level meter (audio analyzer) to the following point of AD-100 board. TP305 (E, 5) E301 (D, 6) (GND)	TP305 level: -6.0 dBs $\pm$ 0.1 dB	● RV307 (E, 5)
4	RETURN2 Level Adjustment	- Connect an audio oscillator output of 1 kHz, +4 dBs to the connector RTN 2 (ANALOG IN 2 (or 4) panel). - Connect an audio level meter to the following point of AD-100 board. TP505 (J, 5) E501 (D, 6) (GND)	TP505 level: -6.0 dBs $\pm$ 0.1 dB	● RV507 (J, 5)

(0 dBs = 0.775 Vrms)

2-7-4. DA Converter Adjustment

Equipment Required

Audio level meter (audio analyzer)
Digital multimeter (dc volt meter)
Connecting cable

Switches and Controls Setting

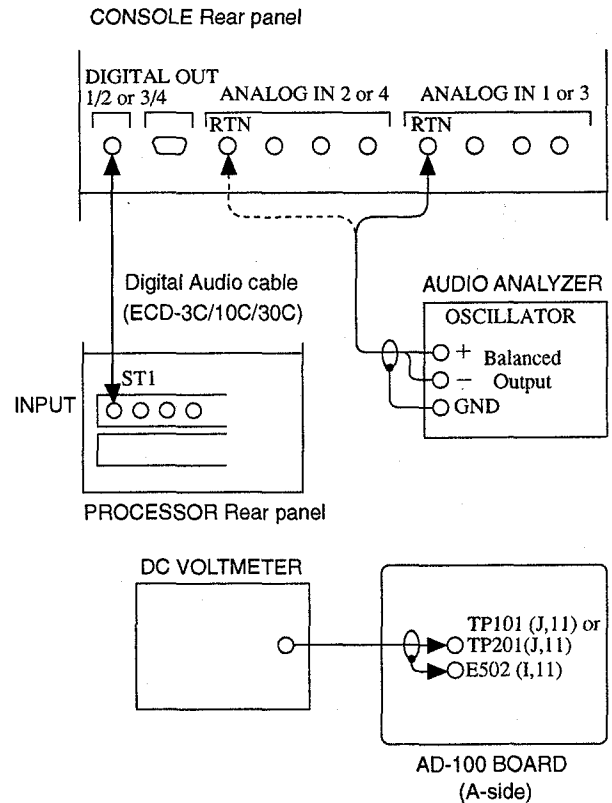
Same as Section "2-1-2. Initial Setting" except the following setting

HA panel (DMBK-4012

INS switch: ON (both 1 and 2)

Connection

Connect the DIGITAL OUT (DMBK-4012 rear panel) output to the digital INPUT 1 of processor.



Adjustment

Step	Adjustment	Adjustment Conditions	Specifications	Adjustment (AD-100 Board)
1	L-ch DC Offset Adjustment	- Remove connection from the RTN 1 connector (ANALOG IN1 (or 3) panel). - Connect dc volt meter to the following point of AD-100 board. TP101 (J, 11) E502 (I, 11), GND	Offset voltage: minimum	RV102 (I, 12)
2	L-ch DA Converter Level Adjustment	Connect the oscillator (audio analyzer) (1 kHz, +24 dBs signal output) to the RTN 1 connector (ANALOG IN2 (or 4) panel).	Meter unit : The OVER display of the PFL bar graph meter turns off.	RV101 (I, 7)
3	L-ch DC Offset Adjustment	- Remove connection from the RTN 2 connector (ANALOG IN2 (or 4) panel). - Connect dc volt meter to the following point of AD-100 board. TP201 (J, 11) E502 (I, 11), GND	Offset voltage: minimum	RV202 (I, 14)
4	L-ch DA Converter Level Adjustment	Connect the oscillator (audio analyzer) to the RTN 2 connector (ANALOG IN2 (or 4) panel).	Meter unit : The OVER display of the PFL bar graph meter turns off.	RV201 (K, 8)

(0 dBs = 0.775 Vrms)